User Guide

December 2012

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Foreword

Thank you for purchasing mColor. We hope you will come to rely on mColor as a powerful productivity and color control tool.

The essential components are:

mColor Server
mColor Client
Navigator RIP

This manual explains how to install and use mColor Server and Client. For those who need to go deeper into configuration and customization, there are separate manuals available for the RIP and for the color management engine.

Chapter 1 – About mColor Server and Client

1.1 Overview

mColor is a job management and color control system.
It comprises three components that work together. It has two components that run on the computer connected to the printer. These components are mColor Server, and the Harlequin-based, Navigator RIP. The third component is the client. The client may run on any networked computer. mColor Client provides a single, simple user interface from which users - from their own desktops - can monitor jobs through various production stages. Users can view, modify, delete, re-process, and color-correct their work without leaving their desks.

By using mColor, operators can track thousands of jobs from their Windows or Macintosh clients.

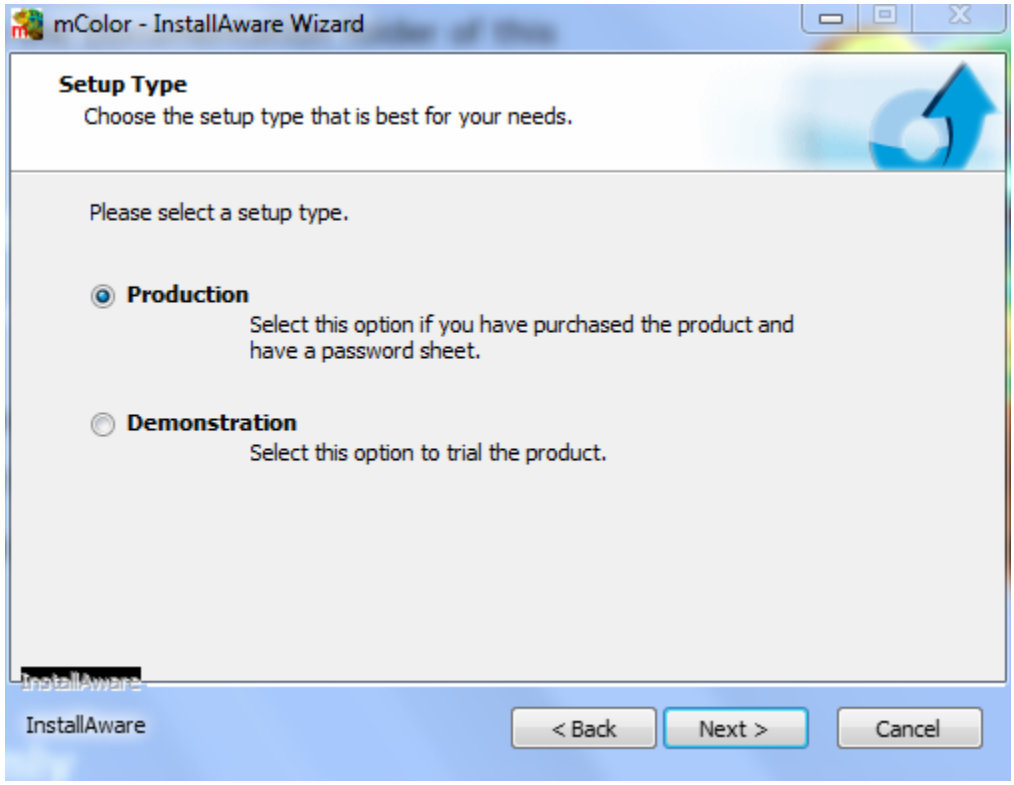
1.2 mColor Server

The Server and the RIP run on a PC. This requires Windows 2003, Windows XP, Windows Vista or Windows 7. No "Home Edition" versions of Microsoft's operating systems are supported.

mColor Server handles system security (licensing) and requires a dongle to run. However, for trial purposes, mColor can run without dongles for a limited time.

Operation without a dongle

Without a dongle mColor operates as follows:
For a 90-day trial period, a watermark system will function. Output will be at full quality and speed but will have thin watermark squares printed every so often across a job. Both the demonstration version and the full, production version are available from the same installer disk. At the beginning of the installation simply choose whether you wish to install a production system or a demonstration system, as shown in the screen capture below.


mColor - InstallAware Wizard
Setup Type
Choose the setup type that is best for your needs.
Please select a setup type.
Production
Select this option if you have purchased the product and have a password sheet.
Demonstration
Select this option to trial the product.
InstallAware
InstallAware
< Back
Next >
Cancel

Operation with a dongle

The Server handles system security (with the exception of connected RIPs). Therefore, Client platforms do not need dongles. The Server will accept as many Client connections as are currently licensed.
Upgrades to the system can be handled with license codes. Upgrading to support additional Clients is a simple process of entering a security code into the Server to update the permissions. This Server upgrade menu is called "Product Features." Contact your dealer to purchase additional permission codes.

1.3 mColor Clients

Clients are available for Windows XP, 2003, Vista, Windows 7, OSX 10.7, OSX 10.8.

The Client provides the regular user interface to the system, after completion of basic system configuration. Users may connect to the Server and, subject to their access privileges, create or modify workflows and manage jobs.

The system saves the user's work and job status so the user can connect via another Client on another computer and see their work as they would expect.

Clients allow users to:

- Create, modify or delete workflows.
- See jobs in the system using a number of different views.
- Review jobs that are held at various workflow stages.
- Release, delete or re-submit jobs.
- Soft proof jobs on screen before final output.
- Correct RGB, CMYK and spot colors

Chapter 2 – Server Installation

2.1 Preparing for installation

Make sure you have USB hardware keys (dongles), an installer disk, and a printer that has been set up with ink, paper, and electrical power. Don't plug the dongles in yet. We will do that later, after we prepare our computer's network and user account settings properly.

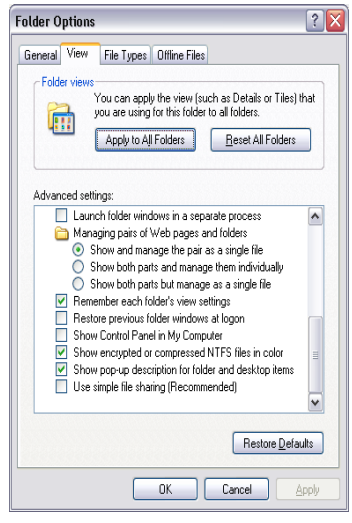
To prepare Windows XP, Windows Vista, or Windows 7 for use with mColor requires a few configuration changes be made before installing the software.

2.2 Preparing for installation to Windows XP Professional

Simple File Sharing

The default configuration upon installation of Windows XP is for "simple file sharing" to be enabled. Before continuing, it should be turned off. To do so, follow these steps:

Simple File Sharing


Folder Options
General
View
File Types
Offline Files
Folder views
You can apply the view (such as Details or Tiles) that you are using for this folder to all folders.
Apply to All Folders
Reset All Folders
Advanced settings:
Launch folder windows in a separate process
Managing pairs of Web pages and folders
Show and manage the pair as a single file
Show both parts and manage them individually
Show both parts but manage as a single file
Remember each folder's view settings
Restore previous folder windows at logon
Show Control Panel in My Computer
Show encrypted or compressed NTFS files in color
Show pop-up description for folder and desktop items
Use simple file sharing (Recommended)
Restore Defaults
OK
Cancel
Apply

1. Open a window.
2. From the **Tools** menu select **Folder Options . . .**
3. In the **Folder Options** window, select the **View** tab.
4. Scroll to the bottom of the "Advanced settings:" list.
5. Turn off **Use simple file sharing** as shown in the figure on page 10.

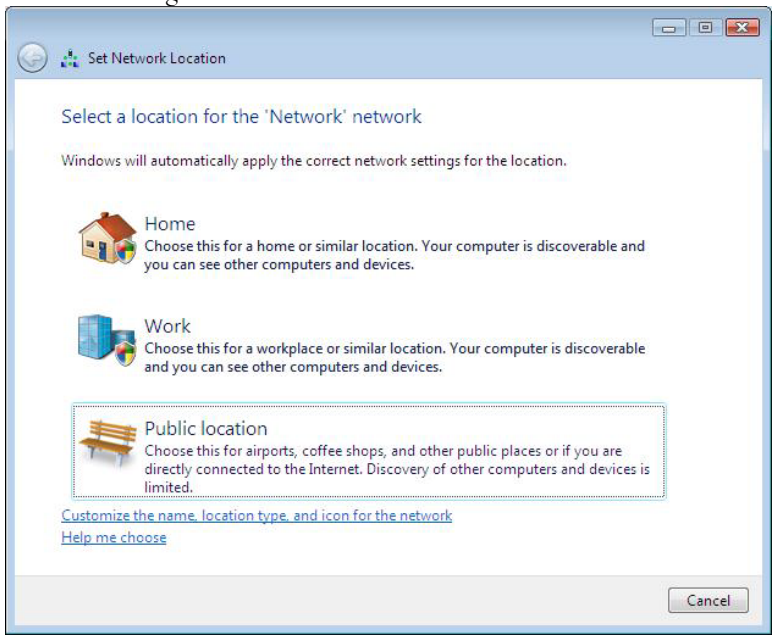
You are now ready to install mColor

2.3 Preparing for installation on Windows Vista

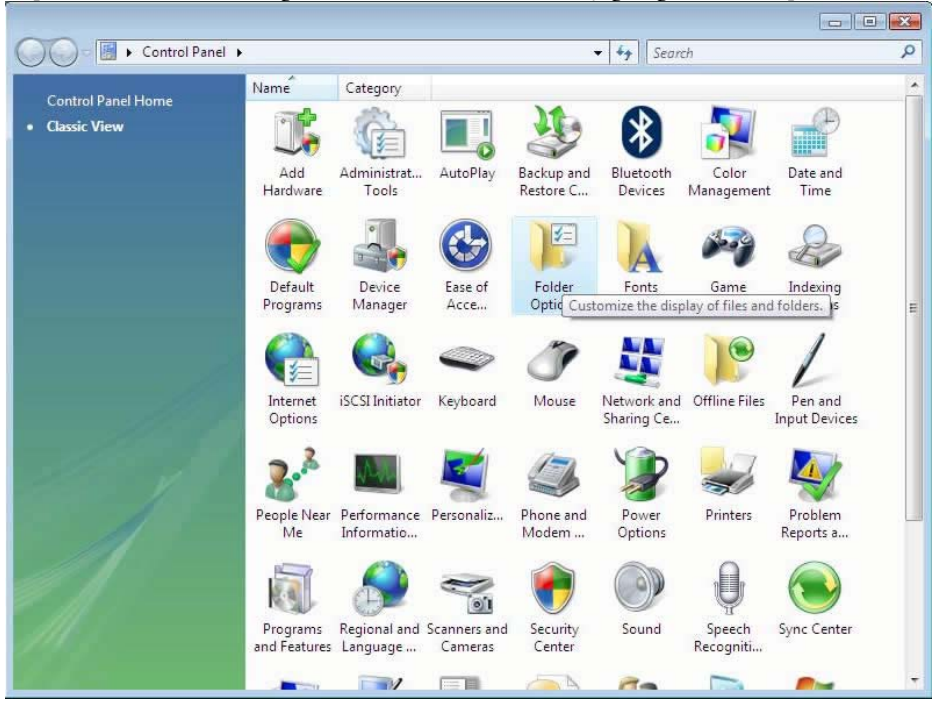
The following section explains how to prepare **Windows Vista**:

Step 1. Make sure you are running under a windows user that is a member of the local "administrators" group. mColor requires administrative access to operate correctly.

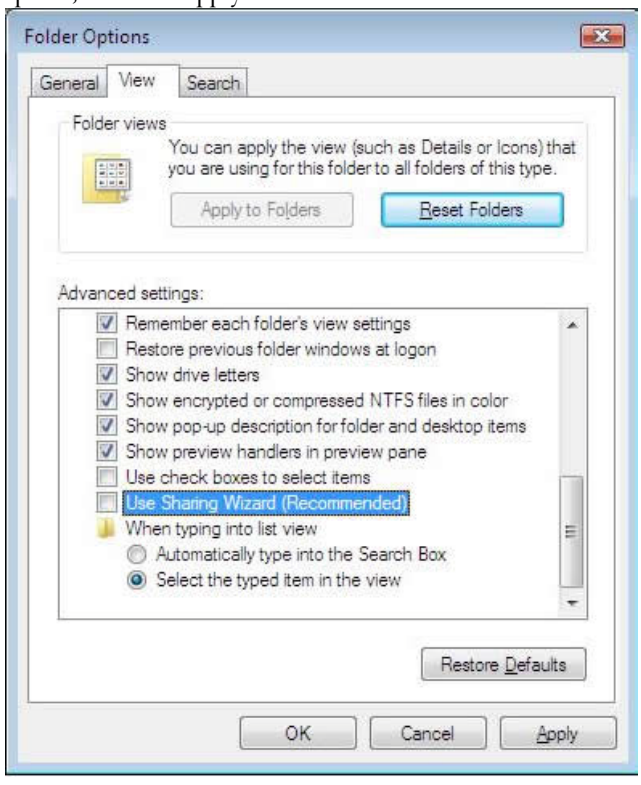
Step 2. Selecting the correct network type. The first time your computer is connected to a network, it will ask what type of network you are connecting to. For mColor to have the ability to see and be seen on the network, you need to select the "Work network" setting.


Set Network Location
Select a location for the 'Network' network
Windows will automatically apply the correct network settings for the location.
Home
Choose this for a home or similar location. Your computer is discoverable and you can see other computers and devices.
Work
Choose this for a workplace or similar location. Your computer is discoverable and you can see other computers and devices.
Public location
Choose this for airports, coffee shops, and other public places or if you are directly connected to the Internet. Discovery of other computers and devices is limited.
Customize the name, location type, and icon for the network
Help me choose
Cancel

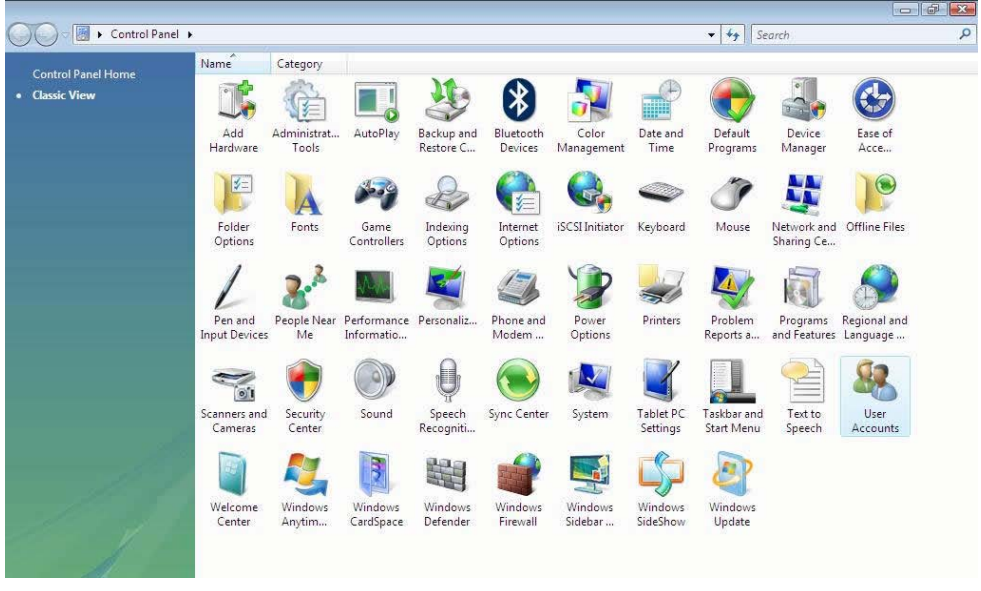
Step 3. Disable the "sharing wizard". This can be done by going to control panels and selecting "Folder Options"



Once in the “Folder Options” dialogue select the “View” tab and scroll down to the “Use Sharing Wizard” selection, deselect the option, and click apply.

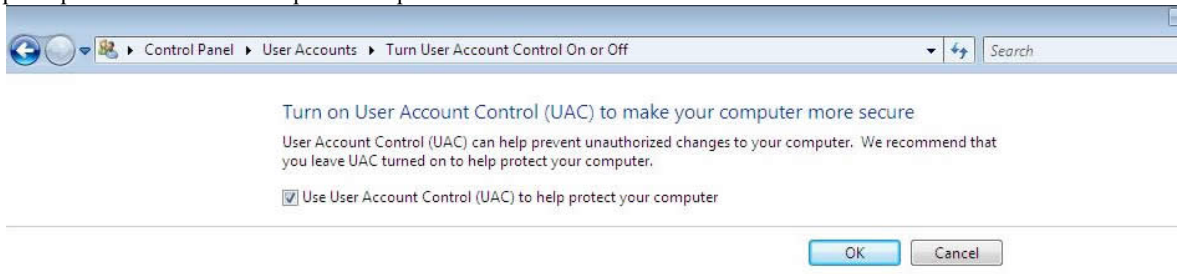

Folder Options
General
View
Search
Folder views
You can apply the view (such as Details or Icons) that you are using for this folder to all folders of this type.
Apply to Folders
Reset Folders
Advanced settings:
Remember each folder's view settings
Restore previous folder windows at logon
Show drive letters
Show encrypted or compressed NTFS files in color
Show pop-up description for folder and desktop items
Show preview handlers in preview pane
Use check boxes to select items
Use Sharing Wizard (Recommended)
When typing into list view
Automatically type into the Search Box
Select the typed item in the view
Restore Defaults
OK
Cancel
Apply

Step 4. Disable the User Account Control (UAC). This can be done by going control panels and selecting “User Accounts”.



Once in the “User Accounts” dialogue select the option labeled “Turn User Account Control on or off”.

Finally uncheck the box next to “Use User Account Control (UAC) to help protect your computer” and click “OK”. You may be prompted to restart to complete this process.

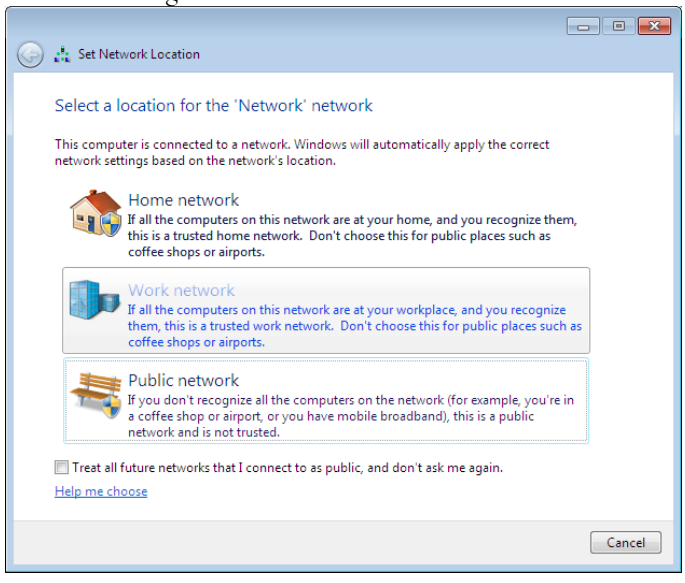

Control Panel ▸ User Accounts ▸ Turn User Account Control On or Off
Search
Turn on User Account Control (UAC) to make your computer more secure
User Account Control (UAC) can help prevent unauthorized changes to your computer. We recommend that you leave UAC turned on to help protect your computer.
Use User Account Control (UAC) to help protect your computer
OK
Cancel

You are now ready to install mColor.

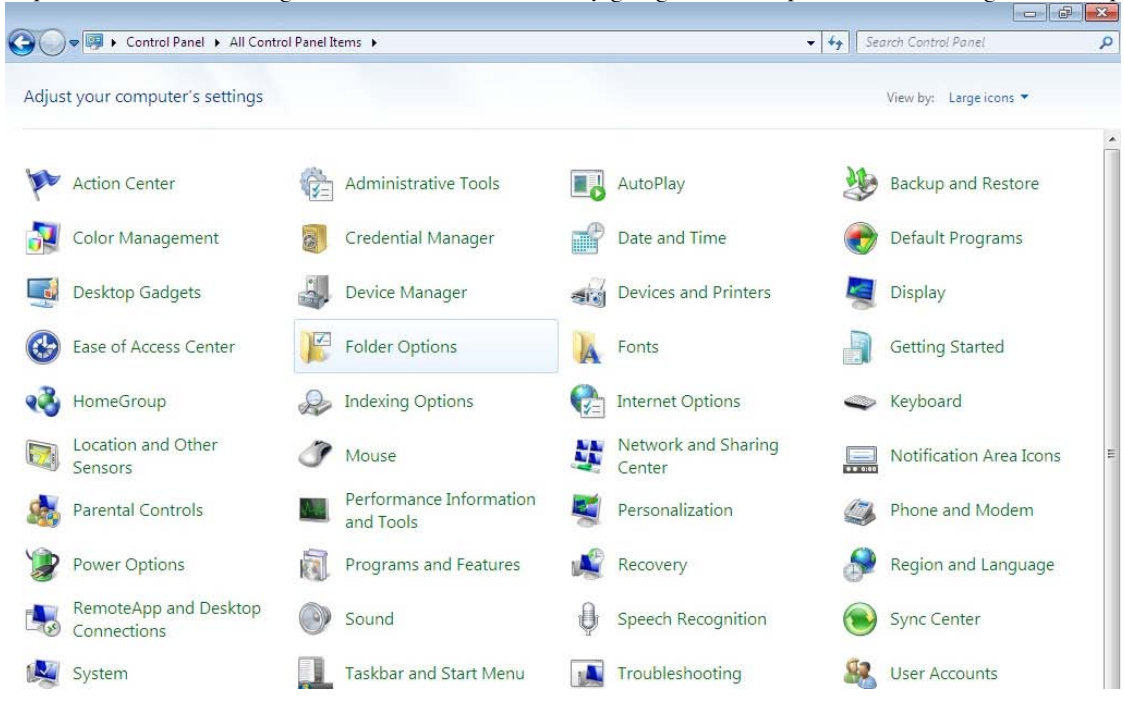
2.4 Preparing for installation on Windows 7

Step 1. Make sure you are running under a windows user that is a member of the local "administrators" group. mColor requires administrative access to operate correctly.

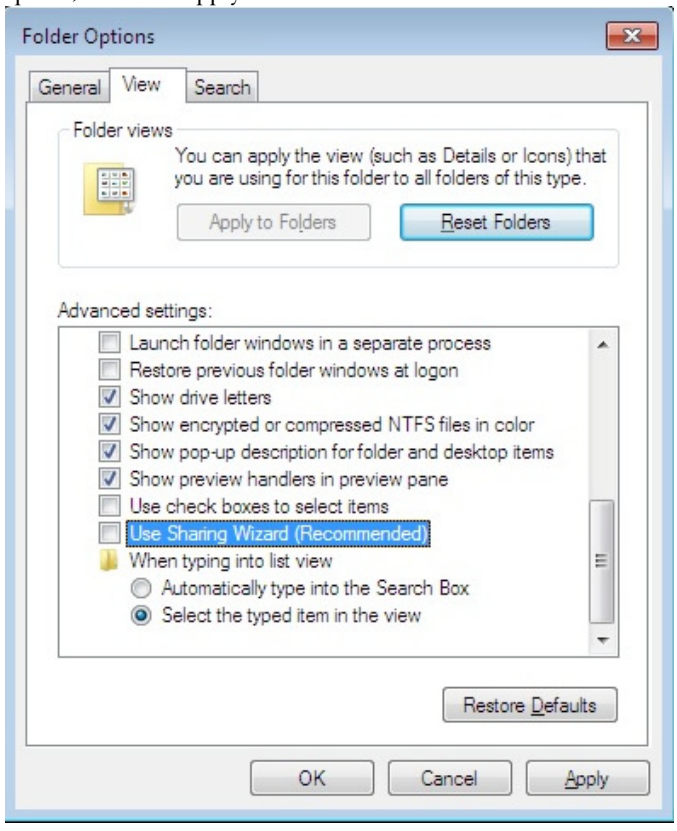
Step 2. Selecting the correct network type. The first time your computer is connected to a network, it will ask what type of network you are connecting to. For mColor to have the ability to see and be seen on the network, you need to select the "Work network" setting.


Set Network Location
Select a location for the 'Network' network
This computer is connected to a network. Windows will automatically apply the correct network settings based on the network's location.
Home network
If all the computers on this network are at your home, and you recognize them, this is a trusted home network. Don't choose this for public places such as coffee shops or airports.
Work network
If all the computers on this network are at your workplace, and you recognize them, this is a trusted work network. Don't choose this for public places such as coffee shops or airports.
Public network
If you don't recognize all the computers on the network (for example, you're in a coffee shop or airport, or you have mobile broadband), this is a public network and is not trusted.
Treat all future networks that I connect to as public, and don't ask me again.
Help me choose
Cancel

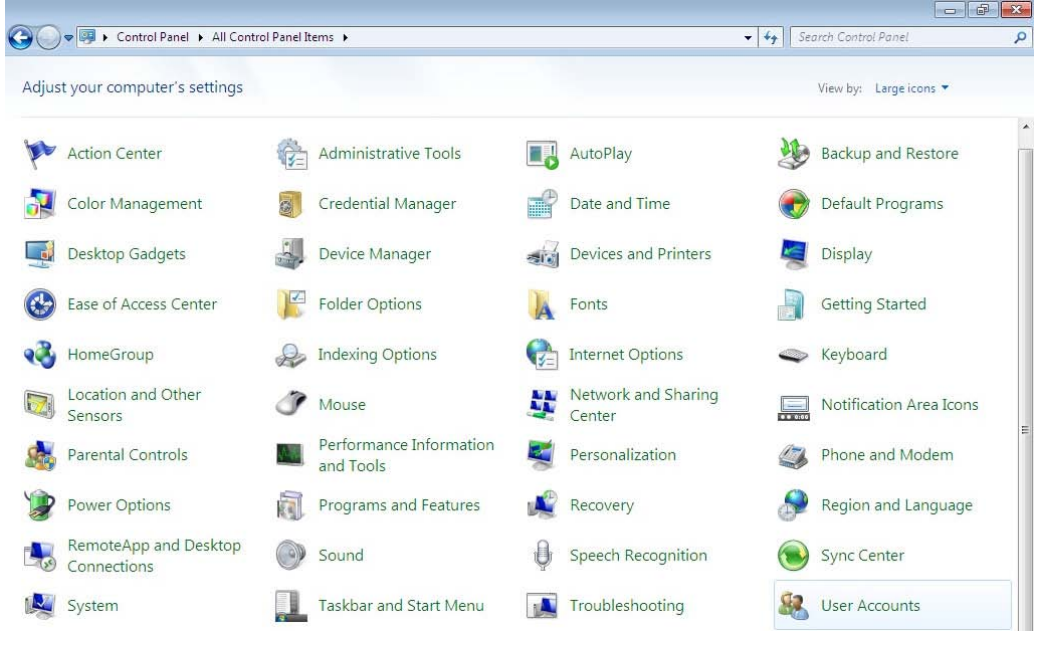
Step 3. Disable the "sharing wizard". This can be done by going to control panels and selecting "Folder Options"



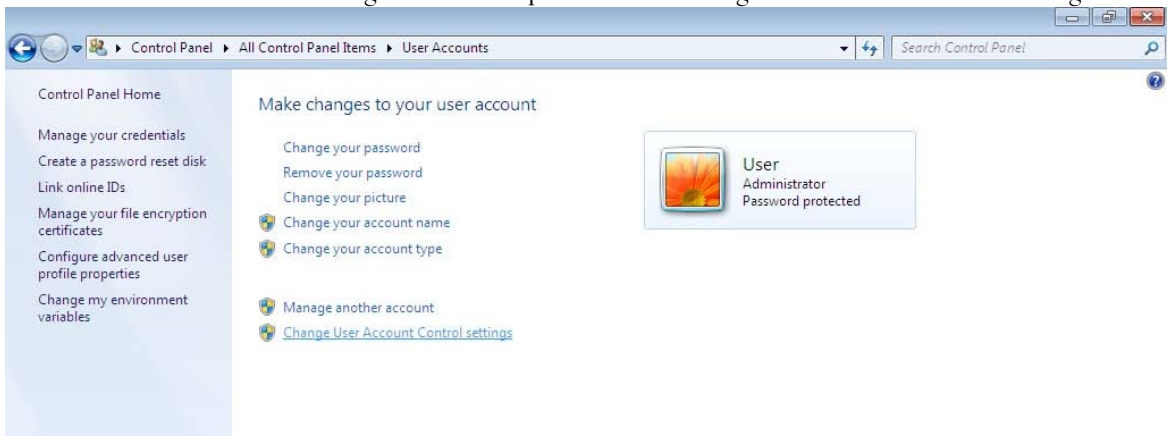
Once in the “Folder Options” dialogue select the “View” tab and scroll down to the “Use Sharing Wizard” selection, deselect the option, and click apply.


Folder Options
General
View
Search
Folder views
You can apply the view (such as Details or Icons) that you are using for this folder to all folders of this type.
Apply to Folders
Reset Folders
Advanced settings:
Launch folder windows in a separate process
Restore previous folder windows at logon
Show drive letters
Show encrypted or compressed NTFS files in color
Show pop-up description for folder and desktop items
Show preview handlers in preview pane
Use check boxes to select items
Use Sharing Wizard (Recommended)
When typing into list view
Automatically type into the Search Box
Select the typed item in the view
Restore Defaults
OK
Cancel
Apply

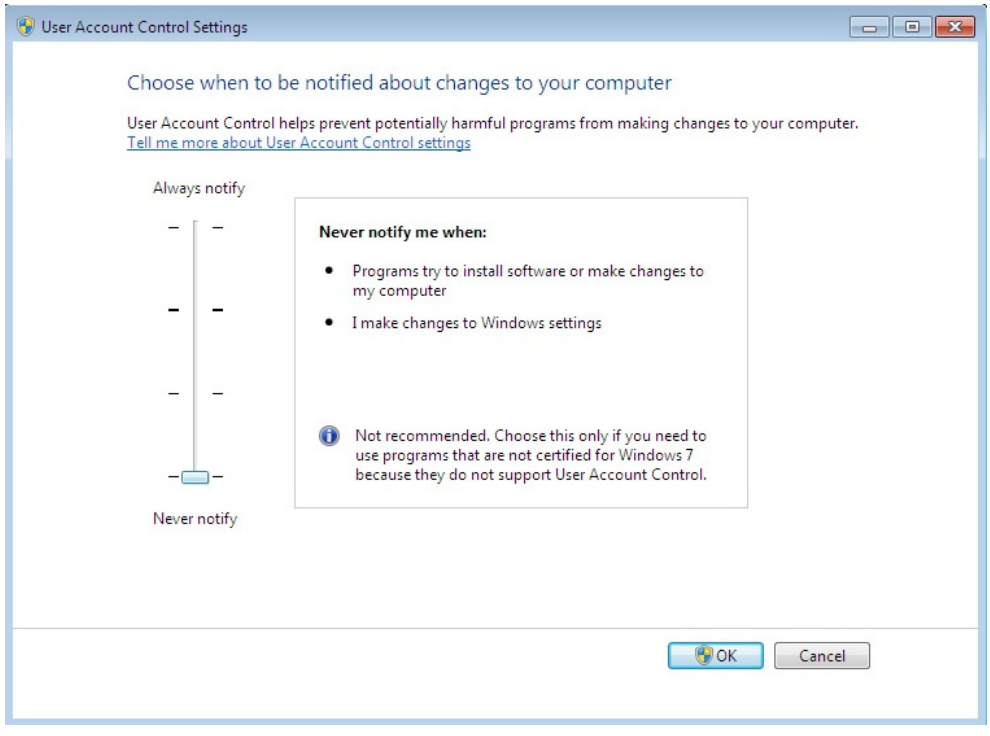
Step 4. Disable the User Account Control (UAC). This can be done by going control panels and selecting “User Accounts”.



Once in the “User Accounts” dialogue select the option labeled “Change User Account Control settings”.



Finally slide the slider bar to the bottom setting of “Never notify” and click “OK”. You may be prompted to restart to complete this process.

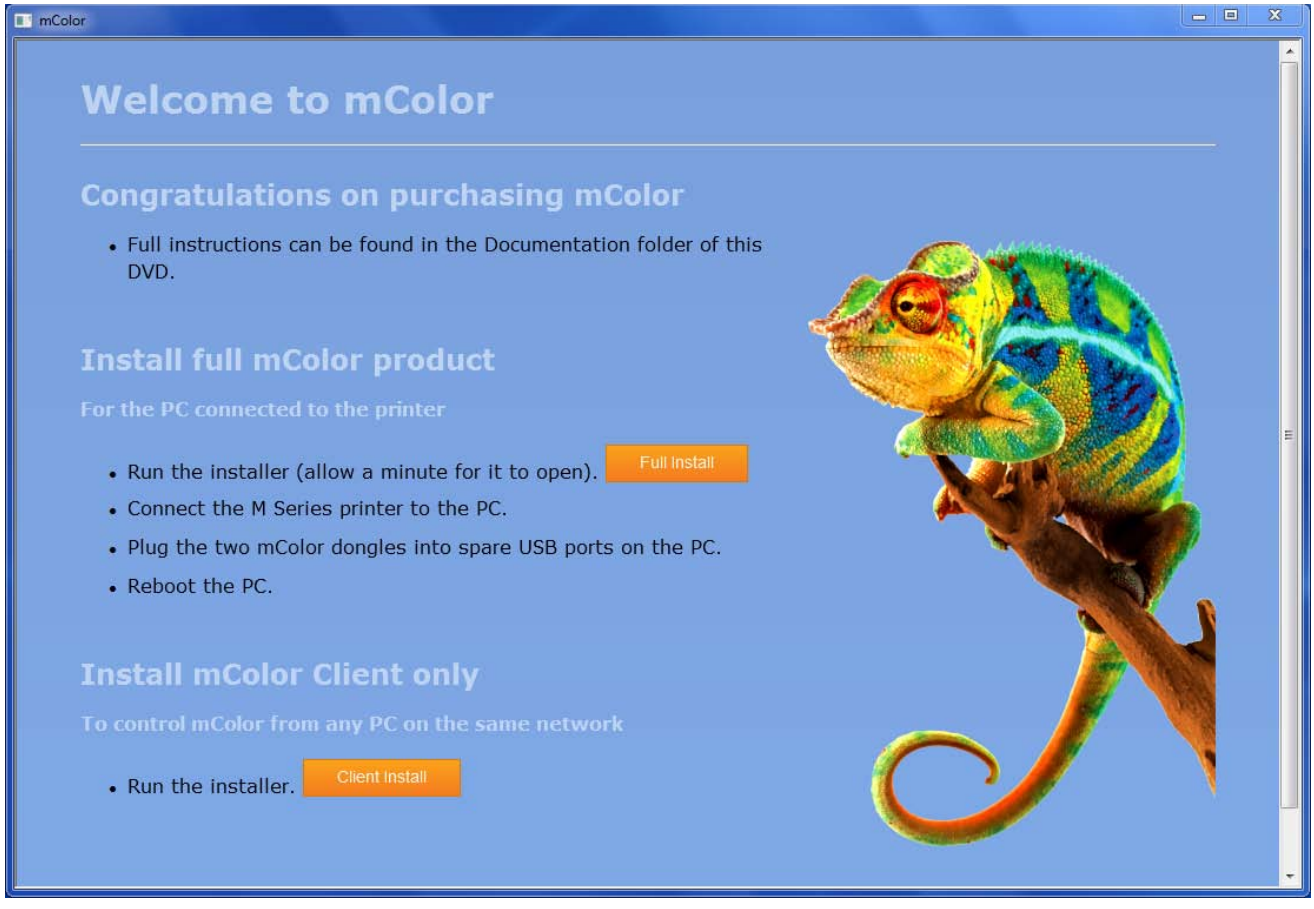

User Account Control Settings
Choose when to be notified about changes to your computer
User Account Control helps prevent potentially harmful programs from making changes to your computer.
Tell me more about User Account Control settings
Always notify
Never notify
Never notify me when:
Programs try to install software or make changes to my computer
I make changes to Windows settings
Not recommended. Choose this only if you need to use programs that are not certified for Windows 7 because they do not support User Account Control.
OK
Cancel

You are now ready to install mColor.

Chapter 3 – mColor Installation

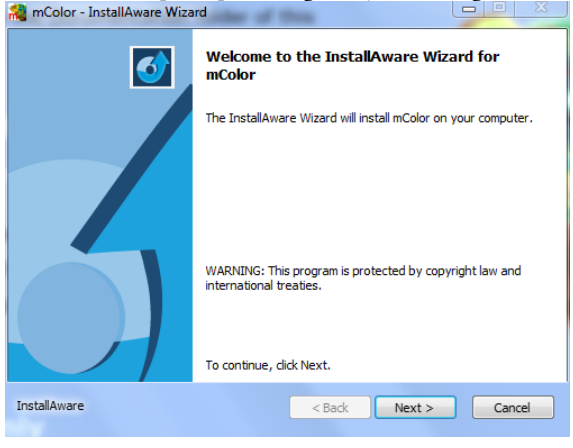
3.1 mColor installation from the DVD

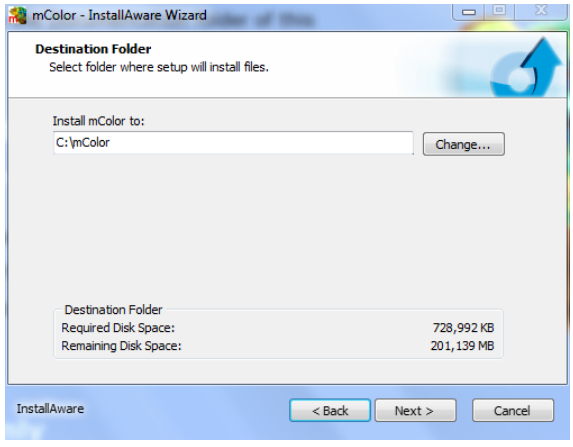
Make sure no security dongles are attached to the PC. Insert the mColor DVD.
The mColor disk will automatically launch the install screen. Two buttons are available.


mColor
Welcome to mColor
Congratulations on purchasing mColor
• Full instructions can be found in the Documentation folder of this DVD.
Install full mColor product
For the PC connected to the printer
• Run the installer (allow a minute for it to open).
Full Install
• Connect the M Series printer to the PC.
• Plug the two mColor dongles into spare USB ports on the PC.
• Reboot the PC.
Install mColor Client only
To control mColor from any PC on the same network
• Run the installer.
Client Install

1. **Full Install** (Installs mColor Server, RIP, and Client)
2. **Client Install** (Installs the Client only. To be run on networked Windows computers.)

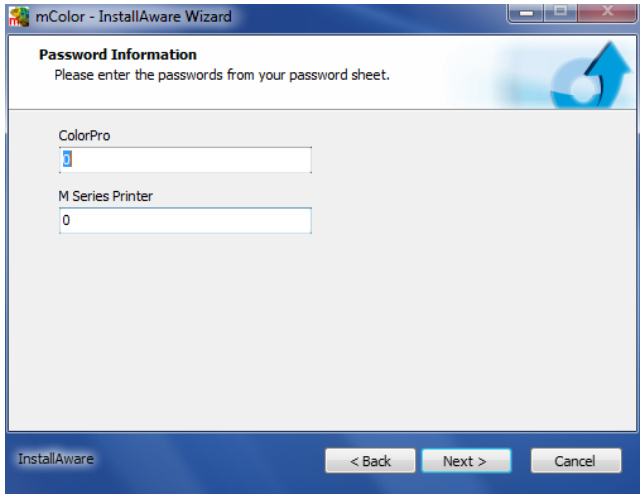
The on-screen prompts will guide you through the entire installation.


mColor - InstallAware Wizard
Welcome to the InstallAware Wizard for mColor
The InstallAware Wizard will install mColor on your computer.
WARNING: This program is protected by copyright law and international treaties.
To continue, click Next.
InstallAware
< Back
Next >
Cancel



Unless you have a good reason, the default location is best for the installation.

The system will ask for license codes. Refer to the code sheet that came with your system and enter the codes. Without the proper codes the system will not operate.



3.2 Restart your PC

After installation restart your computer. During the start up process you can attach the dongles and the printer USB cable.

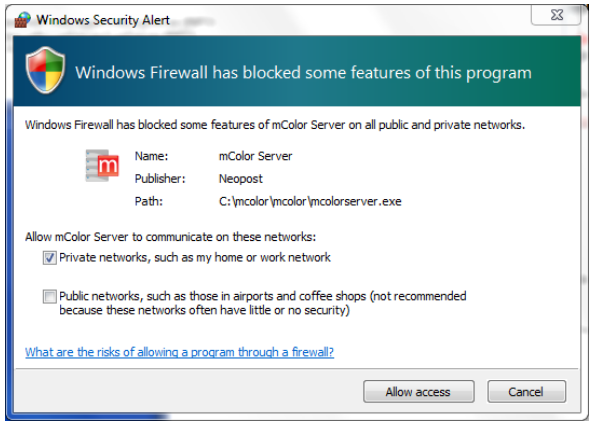
Chapter 4 – Getting Started

4.1 Launching the Software

Verify the installation of your dongle before launching the application. Without the dongle, the License Manager will not allow the software to run. The dongle must be properly inserted into an available USB port.

The Installer places Shortcuts for the Server and the Client on your desktop. The system is launched by starting the mColor Server. If you wish you could make a copy of the desktop shortcut and put it into the startup items folder so it will be automatically launched whenever the computer is turned on. The Client may optionally be launched from this computer, or on any Macintosh or Windows computer on the network. Installers for the clients are on the disk.

Note: If your system has a Firewall installed you will see a number of alerts the first time the mColor system starts. Programs that may ask for authorization include MCOLOR SERVER, SOAR, JAVACORESOAR, PDFSERVER.EXE, and others. For each component, permit the software to run, and check the box to make this permission permanent. Once each component has been authorized it will not need further permissions.


Windows Security Alert
Windows Firewall has blocked some features of this program
Windows Firewall has blocked some features of mColor Server on all public and private networks.
Name: mColor Server
Publisher: Neopost
Path: C:\mcolor\mcolor\mcolorserver.exe
Allow mColor Server to communicate on these networks:
Private networks, such as my home or work network
Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)
What are the risks of allowing a program through a firewall?
Allow access
Cancel

4.2 RIP Configuration

Navigator is a Harlequin RIP component to the mColor system. In normal operation the user will not need to interact with it. If there are problems at the printer (paper jams, running out of ink, etcetera) the "disable output" check box will automatically engage, stopping the RIP from sending jobs to a printer that needs user intervention. Once the problem is cleared up the user may uncheck that box here and jobs will continue to print. However, this function may also be engaged in the client and the user need not ever engage with the RIP directly. The Output Controller should be set to **Delete Always** and uncheck **Disable Output**, as shown below.

OUTPUT CONTROLLER CONFIGURATION

Configure Page Setups from within the RIP menu by selecting **Navigator, Page Setup Manager**. ***Do not delete the default page setup.*** Once this initial configuration is completed, users will be able to select these Page Setups from within the Client application at any Mac or PC on which it is installed. See the Navigator User Guide for more information on RIP configuration. The mColor installer creates all the Page Setups that a normal user will require.

4.3 RIP Page Setups

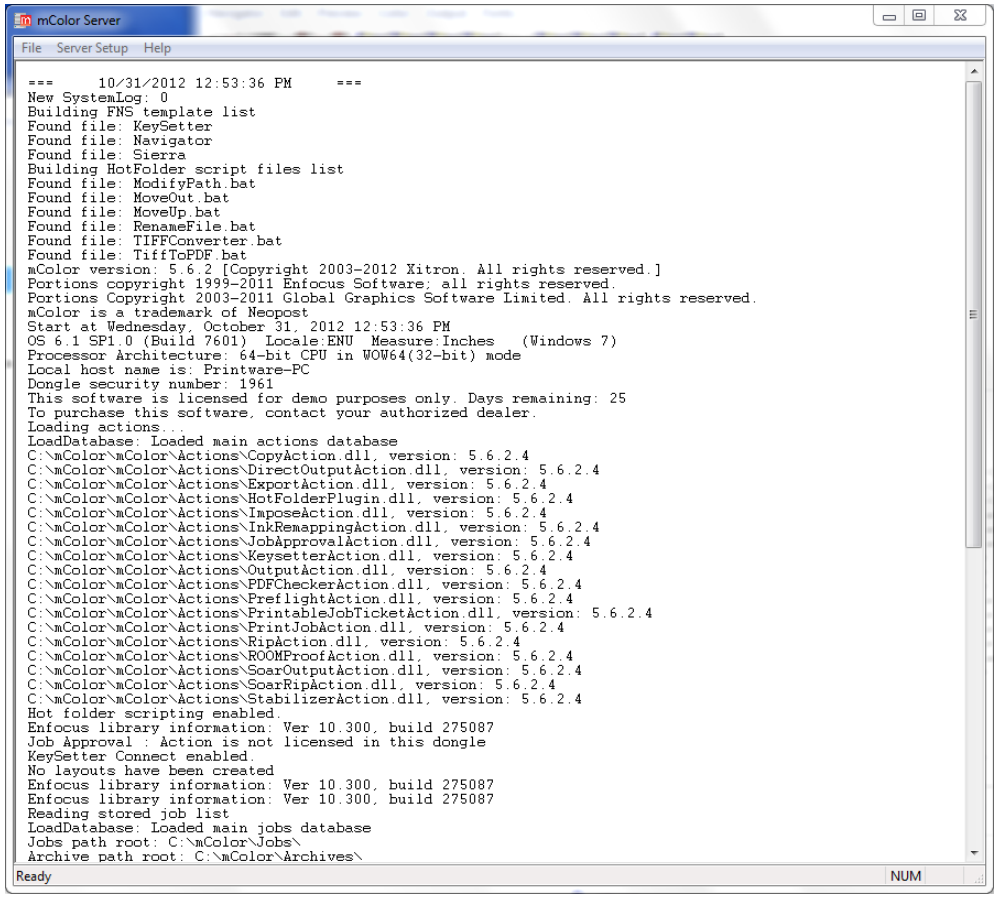
The RIP stores configurations using a system of Page Setups. Knowledge of Page Setups is largely unnecessary in mColor unless you are an advanced user and wish to make customizations. If this is the case, see the RIPs user manual on the installation DVD. For most users, the automatically created setups will provide all the control needed.

Chapter 5 – Server Configuration

5.1 Introduction

After launching the mColor Server application, the Server Dialog appears on the Server PC:

mColor Server Dialog


mColor Server
File Server Setup Help
=== 10/31/2012 12:53:36 PM ===
New SystemLog: 0
Building FNS template list
Found file: KeySetter
Found file: Navigator
Found file: Sierra
Building HotFolder script files list
Found file: ModifyPath.bat
Found file: MoveOut.bat
Found file: MoveUp.bat
Found file: RenameFile.bat
Found file: TIFFConverter.bat
Found file: TiffToPDF.bat
mColor version: 5.6.2 [Copyright 2003-2012 Xitron. All rights reserved.]
Portions copyright 1999-2011 Enfocus Software; all rights reserved.
Portions Copyright 2003-2011 Global Graphics Software Limited. All rights reserved.
mColor is a trademark of Neopost
Start at Wednesday, October 31, 2012 12:53:36 PM
OS 6.1 SP1.0 (Build 7601) Locale:ENU Measure:Inches (Windows 7)
Processor Architecture: 64-bit CPU in WOW64(32-bit) mode
Local host name is: Printware-PC
Dongle security number: 1961
This software is licensed for demo purposes only. Days remaining: 25
To purchase this software, contact your authorized dealer.
Loading actions...
LoadDatabase: Loaded main actions database
C:\mColor\mColor\Actions\CopyAction.dll, version: 5.6.2.4
C:\mColor\mColor\Actions\DirectOutputAction.dll, version: 5.6.2.4
C:\mColor\mColor\Actions\ExportAction.dll, version: 5.6.2.4
C:\mColor\mColor\Actions\HotFolderPlugin.dll, version: 5.6.2.4
C:\mColor\mColor\Actions\ImposeAction.dll, version: 5.6.2.4
C:\mColor\mColor\Actions\InkRemappingAction.dll, version: 5.6.2.4
C:\mColor\mColor\Actions\JobApprovalAction.dll, version: 5.6.2.4
C:\mColor\mColor\Actions\KeysetterAction.dll, version: 5.6.2.4
C:\mColor\mColor\Actions\OutputAction.dll, version: 5.6.2.4
C:\mColor\mColor\Actions\PDFCheckerAction.dll, version: 5.6.2.4
C:\mColor\mColor\Actions\PreflightAction.dll, version: 5.6.2.4
C:\mColor\mColor\Actions\PrintableJobTicketAction.dll, version: 5.6.2.4
C:\mColor\mColor\Actions\PrintJobAction.dll, version: 5.6.2.4
C:\mColor\mColor\Actions\RipAction.dll, version: 5.6.2.4
C:\mColor\mColor\Actions\ROOMProofAction.dll, version: 5.6.2.4
C:\mColor\mColor\Actions\SoarOutputAction.dll, version: 5.6.2.4
C:\mColor\mColor\Actions\SoarRipAction.dll, version: 5.6.2.4
C:\mColor\mColor\Actions\StabilizerAction.dll, version: 5.6.2.4
Hot folder scripting enabled.
Enfocus library information: Ver 10.300, build 275087
Job Approval : Action is not licensed in this dongle
KeySetter Connect enabled.
No layouts have been created
Enfocus library information: Ver 10.300, build 275087
Enfocus library information: Ver 10.300, build 275087
Reading stored job list
LoadDatabase: Loaded main jobs database
Jobs path root: C:\mColor\Jobs\
Archive path root: C:\mColor\Archives\
Ready
NUM

This window displays information about the Server including its serial number, name and other variables. You may display or hide the Tool Bar and Status bar through the View Menu. To exit the Server, use the **File > Exit** menu selection or the Exit button at the top right corner of the window.

A special user account called Administrator has full rights to configure the Server. Upon installation, the Administrator password is blank. The only active menu item is **Server Setup > Administrator Login**. Choose this option, and click **OK**, leaving the password field blank. You now have access to the full range of Server features. We recommend setting a password for the Administrator user during initial set-up. Go to **Server Setup > Users** dialog (see section 5.2 below) to set the password. Any further changes to the configuration will require logging in as Administrator and entering the correct password.

The Server may be configured when it is installed and when changes to the system are required. The most common change after installation is the addition of new Users.

Configuration options are:

- Add, delete, or change Users
- Upgrade product
- Manage Actions (processes managed by the Server)
- Set locations on the system for storing workflows and jobs
- Set Server Name (for cases where there are more than one Server)
- Set custom field names (for organizing and sorting jobs)

Access these options via the Server Setup menu item, as discussed in detail in the following sections.

5.2 User Management

All system users must register with the Server. Depending on the options purchased, the system limits the number of Users who can simultaneously connect. However there is no limit to the number of users who can be defined at the Server. For example, you might have a 5-User system, but 12 employees who work different shifts. You can define 12 different Users at the Server, and any 5 of them can be connected at one time. If you wish to upgrade your system to support more simultaneous Users, this can be done via a password through the Upgrade Product dialog.

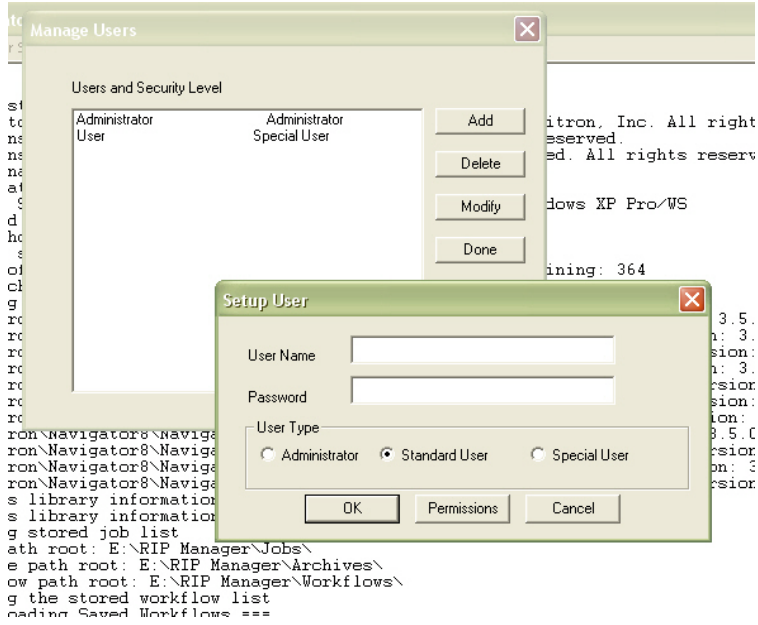
To manage Users select the **Server Setup > Users** menu item.

To create a new User

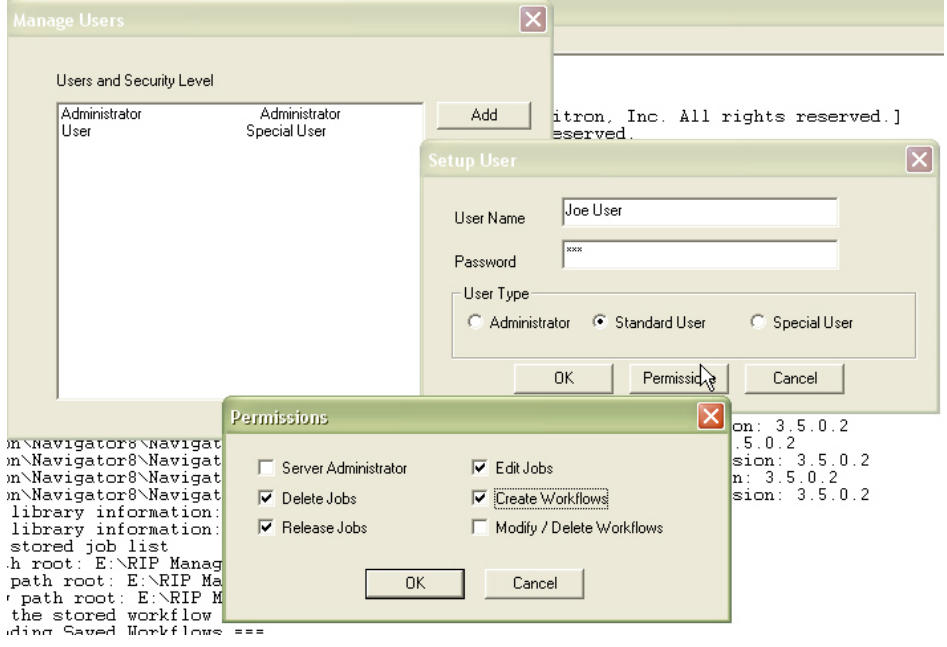
Click **Add**, and enter the User name and Password as shown in the next figure labeled ***Create a User*** on page 16.

Note that a password is not strictly necessary. If this field is left blank, this User may connect to the system without a password. Specify the User type by clicking one of the Radio Buttons. Choose Administrator or Standard User, or by clicking on the permissions button, create a Special User. The Permissions available are shown in the figure labeled User Permissions on page 16.

Create a User



User Permissions



Depending on the type of User created, certain restrictions will apply. For instance, Administrators have all Permissions allowed while Standard Users can only Delete or Release jobs. Special Users are created if you select any other combination of Permissions. After establishing Permissions, click OK until the system returns to the User dialog shown earlier. Confirm the new User(s) is/are shown correctly.

To Delete A User

Access the Users dialog (**Server Setup > Users menu**), highlight the User to delete, and click **Delete**.

To Modify a User Account

Access the Users dialog (**Server Setup > Users menu**), highlight the User to change, and click **Modify**. Make the changes as outlined above for a New User.

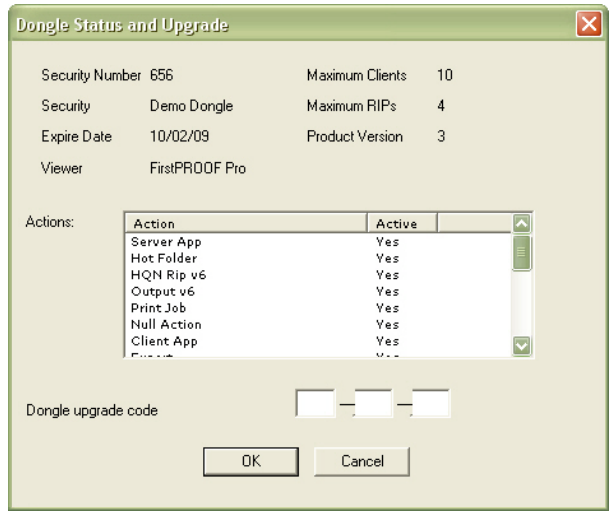
When all changes or additions are complete, click **Done** to close the Users dialog.

5.3 Upgrade Product

mColor uses a security system based on the combination of a dongle and a series of codes to enable or add specific functions. In addition it can run for up to 90 days in Trial Mode. If your system is in Trial Mode, all connected Clients will display the mode, and number of days left, at the top of the Client window.

To convert a Trial Mode system to a full system it will be necessary to obtain codes and a dongle, from your supplier. Connect any new dongle and add codes by navigating to the menu item (**Server Setup > Upgrade Features**). The following dialog appears:

Entering Upgrade Codes



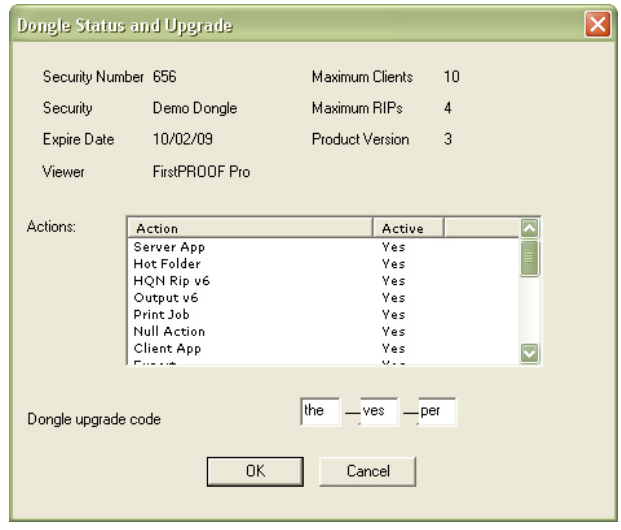
The upper portion of the window displays the dongle Serial Number; the maximum number of simultaneous Client connections; whether or not this system is a Trial (Demo system with an associated expiration date); the maximum number of RIPs that can be managed; the soft proof Viewer version, and the Product Version number.

In the lower center of the screen is a list of Actions that are available in the software. To the right of each Action is the word "Yes" if the Action is currently active or "No" if it is not. To enable currently disabled Actions, add a new RIP or Client connections, or change your PGB Viewer type, you must first obtain the appropriate code from your supplier.

To install the upgrade, enter the code into the boxes at the base of the dialog and click OK. Upon verification by the system the option will be added or changed.

Note: You will also need an upgrade code if you have upgraded from one product Version to another. For example upgrading from Version 1.x to Version 2.x will require a Version Upgrade code. If your system requires a Version Upgrade, the following dialog will appear after launching the Server application:

Version Upgrade



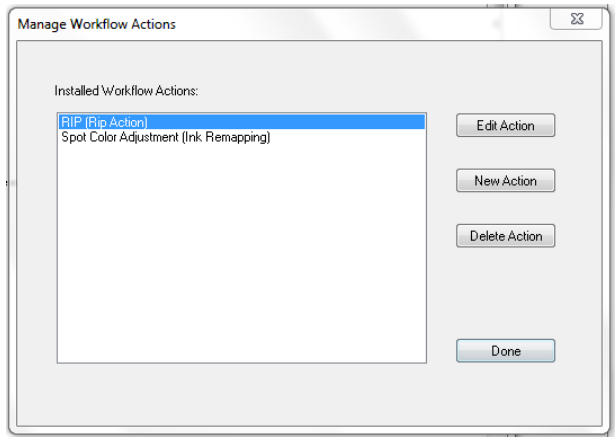
Enter the Version Upgrade code and click OK.

5.4 Manage Actions

"Actions" describe the individual steps or processes mColor Server uses in the construction of workflows. For example, the RIP Action is a basic action that controls the RIP portion of an mColor system. Other actions are optional, and the choices shown in the dialogs will depend on the version of mColor Server.

To configure Actions, select the menu item (**Server Setup > Actions**). The Actions Manager dialog will appear as shown in the figure on page 19. The install creates several actions. You may wish to create more. Only configured Actions will be available for Users creating workflows.

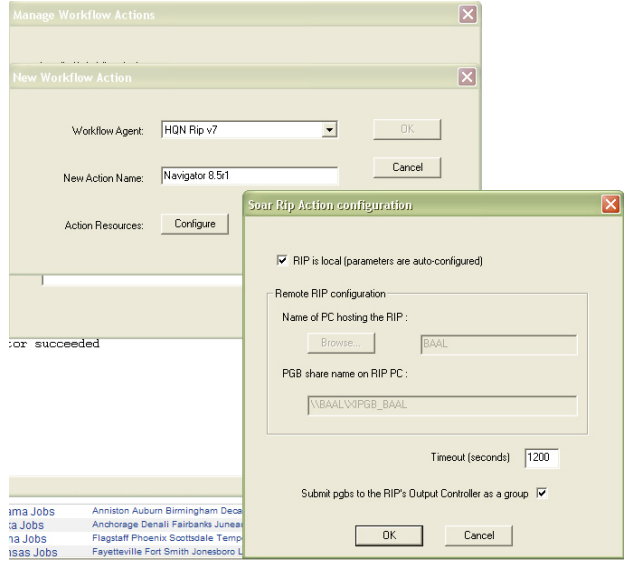
Actions Manager



5.4.1 The RIP Action

From mColor Server's Actions Manager click **New**, select RIP from the list of Workflow Agents, and name the Action. This is the name that users will see from their Client workstations so choose a name that will be helpful to your users; especially if you have more than one RIP. The following figure shows an example of a RIP Action dialog box:

RIP Action Configuration



Note: If you are connecting a RIP that resides on the same PC as the Server, simply check the ***RIP is local…*** check box and the configuration will complete automatically.

If you are configuring a RIP Action for a RIP that is not on the same PC as the mColor server, use the Browse button to locate the shared ***xipgb folder*** on the RIP. mColor Server will attempt to communicate with the RIP immediately.

The timeout value is the length of time the Server will wait for a job to be processed by the RIP before reporting an error. If you are processing very large, highly complex jobs, you may find the system reports an error when in fact the job is still running correctly. If so, set a larger value than 1200 seconds. (note: the default is fine for any installation we currently know about) Click **OK** twice to close the Workflow Actions Manager and return to the Server window.

You may repeat this process with as many RIPs as your Server is licensed to support. Multiple RIP support can take the form of several unrelated RIPs driving several unrelated devices or load balancing across RIPs driving similar devices. See section 6.4.3 for more information on multi-rip support.

NOTE: The "***Submit PGBs to the RIP's Output Controller as a group"*** selection is a compatibility check box for use with certain device output plug-ins. Currently there is no known reason to check this with an M Series Printer.

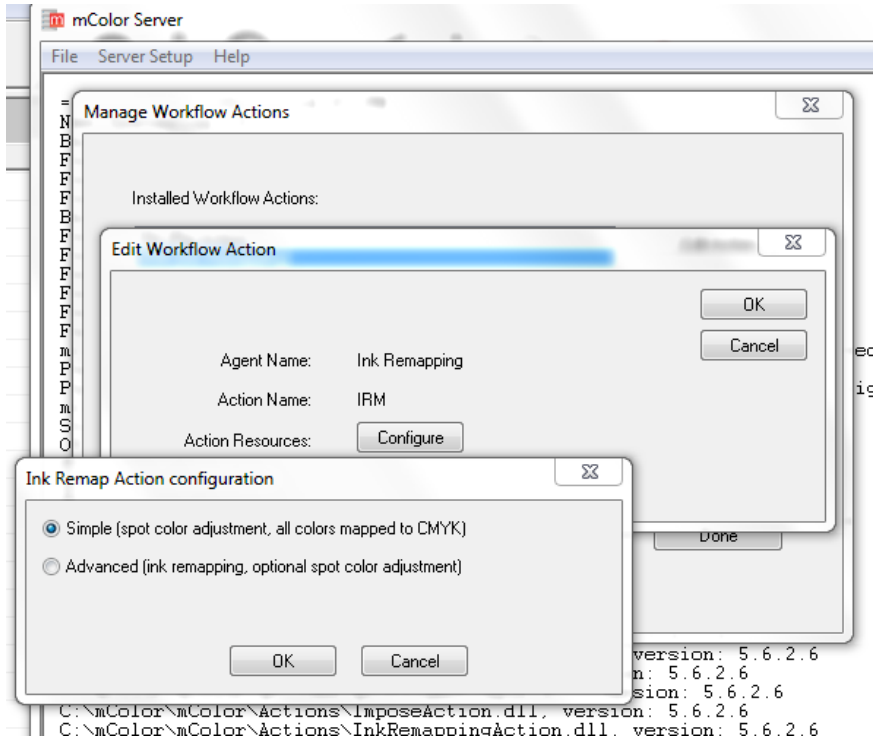
5.4.2 The RIP Output Action

If a RIP Action is configured in the Server (Server Setup > Manage Workflow Actions), both RIP Action and RIP Output Action will be enabled. The RIP Output Action will be named by appending 'Output' to the name of the RIP Action.

The purpose of the RIP Output Action is to take input from a RIP Action which is configured to produce output suitable for a particular device, and to send that output to the device. So for the workflow configuration in the Client, a RIP Output Action must be preceded by a RIP Action which is associated with a Page Setup for an output device.

5.4.3 Ink Remapping Action

Adjusting Spot Colors is done with the ink remapping action. If you need to add one to your mColor system, name it something like "spot color adjustment" and configure it with "Simple" mode as shown in the picture below. Advanced mode is appropriate for printing separations. Simple mode is appropriate for printing composite color work such as is normally printed on an M Series Printer.



5.5 Set System Paths

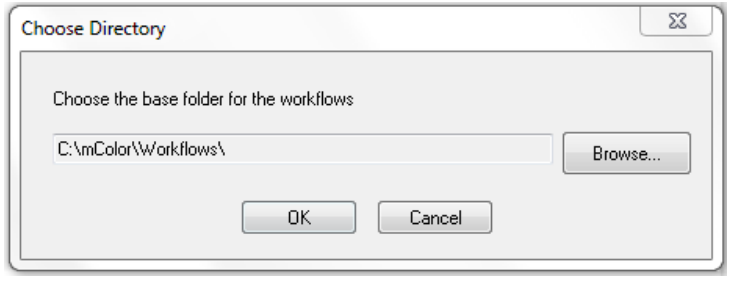
The Server Administrator can configure the RIP Manager Server, controlling the storage location of Workflows, Job Files, and Archives. By default, these are sub-folders in a folder named "mColor," located on the "C" drive of the Server PC. However, the Administrator may change this to any accessible location. For better performance, we recommends the Jobs and Workflows folders remain in the default location. The Archive folder may be placed on a remote or removable drive.

The system databases are archived by default into a folder named "Archived DBs" within the folder containing the Server. These archives are written every 24 hours, and are intended for manual recovery in the case of loss of the Server PC's hard drive, so you may wish to set their location to a remote networked drive. If so, please ensure that the drive can be written with a sufficiently high transfer rate.

Note: When a User creates a Workflow, the system creates a Hot Folder with the Workflow Name inside the System's Jobs folder. Make sure that there is sufficient space in the designated location to store all the jobs expected to reside on the system at one time. Keeping several days' or weeks' worth of jobs on the system is possible only if sufficient drive space exists.

To set System Paths, select the menu items **Server Setup > Set Base Workflow Path**, **Set Base Jobs Path**, **Set Base Archive Path or Set Base Database Archive Path**. In either case, the entry box below will appear. Enter the required path to the location you wish to use, and click **OK**.

SET SYSTEM PATHS



Click OK to save the settings and close the Path Configuration windows. If you have changed the Workflow or Jobs database locations, the Server will now shut down; restart it to make these changes effective.

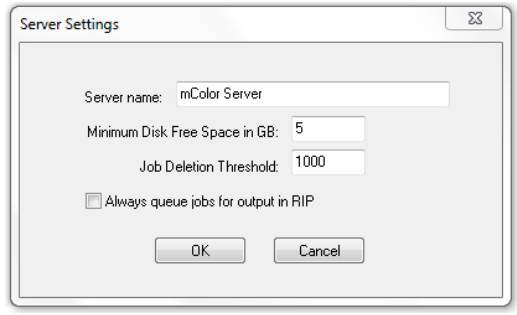
5.6 Server Settings

To change the network name of a Server (i.e. the name that Client sees), select the menu item **Server Setup > Server Settings**. This is normally only necessary if you have two mColor Servers running on the same network.

The system protects itself by halting job processing if the free disk space falls below a threshold level. By default this is 5 gigabytes. For troubleshooting purposes, you may need to change this. In normal operation the default value is correct.

The client application can set a job to delete "when necessary." The "when necessary" threshold is defined in terms of the number of jobs in the system and may be modified here.

Server Settings



5.7 Custom Field Labels

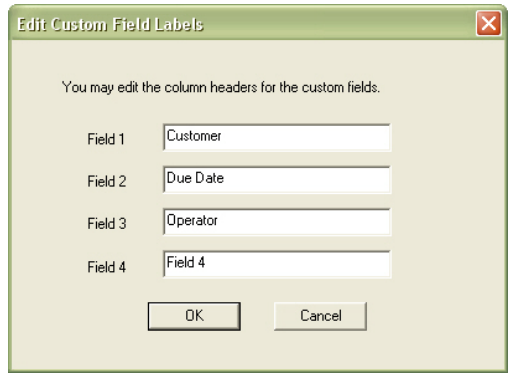
mColor includes a range of features for organizing lists of jobs and related information for users. Some of the most powerful are the Custom Fields. These are four fields that can contain any information the user wishes. This information is then available for display and sorting purposes by each user from within their Clients.

Defined at the Server, Custom Fields can be given appropriate names that apply system-wide. Users can then add information to each field on a per-job basis from any Client.

To define Custom Field names, select the menu item **Server Setup> Edit Custom Field Labels** menu. Enter the Names you wish to use in the four boxes, and click OK. Name the fields any way you wish. Keep in mind that when a User chooses to display these fields, they will be displayed in order from left to right on the User's screen, with Field # 1 appearing first.

In the following example, the System Administrator has chosen to allow display and job sorting on Customer name, Due Date, and the name of the prepress operator responsible for the job.

Custom Field Labels



5.8 Import Files

This dialog is reserved for possible future feature additions.

5.9 Creating Profiles.

This dialog is reserved for possible future feature additions.

5.10 Color and Name Tool

This dialog is reserved for possible future feature additions.

5.11 Install Script

This dialog is for field upgrades and feature requests. It is not for general use.

Chapter 6 – Client Installation

6.1 Introduction

mColor Client is the software you actually use every day for printing to the M Series Printers.

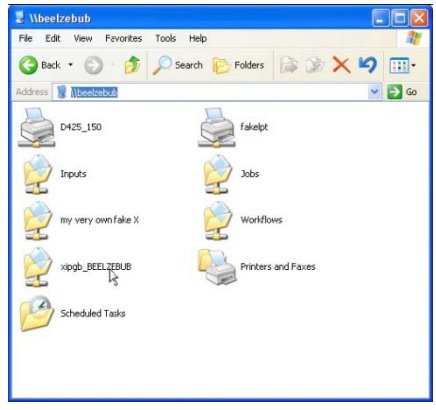
6.2 Installing the PC Client

Begin by inserting the mColor disk into your PC's DVD drive. The install window will appear and offer you two installation choices: the full product or the client only. If you installed the full product this will have installed a client onto the server machine as well. For each computer you wish to print from, install the client.

After installation of the client application on any computer you may need to mount the **Jobs** and **Workflows** volumes. The Server installer automatically created these volumes and set them up for sharing.

To manually attach the shares from a Windows PC, open any window and type **\\<machine name>**. After you enter any required password, the window will display shares. Right-click on the **Jobs** volume and choose **Map Network Drive**. Repeat the process for **Workflows**.

Manually Attaching Shares

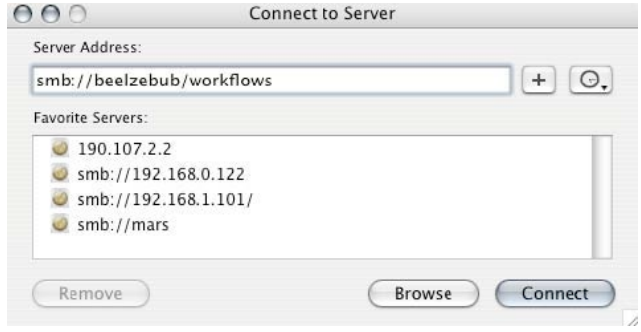


6.3 Installing the Mac Client

The Macintosh Client is located at the root level of the disk. Insert the disk into a Macintosh and open the disk. Just copy the application to the Applications folder.
Note: OSX Macs are able to mount folders shared by Windows. mColor will automatically mount these as needed. If you wish to turn off auto-mounting of shares, do so from the preferences menu in the Client software.

To manually attach the shares from a Macintosh: Through Finder, navigate to the "Go" menu and choose **Connect to Server**. Type **smb://<machine name>/Jobs**. Repeat the process for "Workflows." The following example illustrates the dialog box

Mounting Shares on OSX



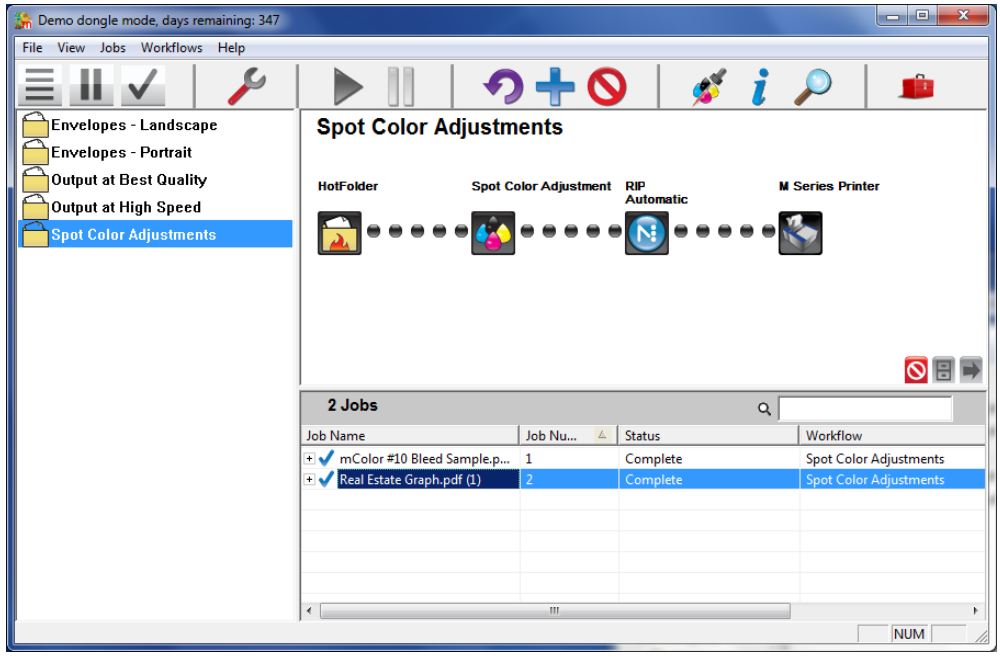
Chapter 7 – Get started with mColor client

7.1 Introduction

Once the Server has been set up, the Client can handle all operations. This Chapter describes how to use the Client for the most common of these operations. It is based on the PC Client, but the Mac version has the same basic appearance and features.

This chapter will get you printing right away. A detailed list of the controls and their functions is available in Chapter 11 – Client Detail.
What follows is a typical view of the Client Graphical User Interface (GUI):

Client GUI



The GUI has a number of regions, noted here starting from the top:

- Menu Bar – Control menus
- Tool Bar – Displays icons of frequently used controls
- (Left window panel) Workflow or Workflow Component “picking” area.
- (Top right window panel) Current Workflow Diagram
- (Lower right window panel) Job List

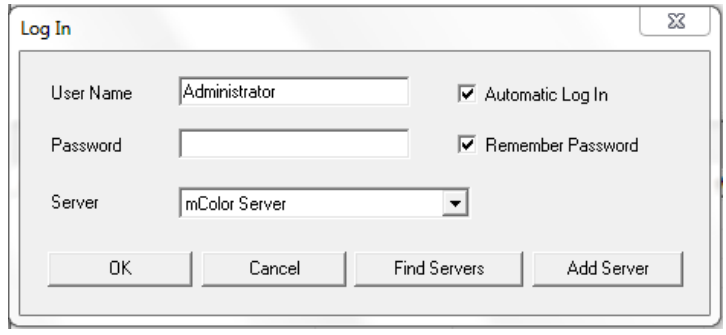
Functionality of these areas will vary according to context, but the general layout remains the same.

There are several steps to creating and using Workflow setups, which will be reviewed in sequence. Not all users have to know all the details of workflow creation. For example, Users can manage workflows created by others without having to learn how to create or modify workflows themselves. Also, the Administrator may limit the permission of users to make changes. If one or more of the controls discussed in this chapter appear "grayed out," or not useable in the Client, it may be necessary to verify the User permission settings with the Administrator.

7.2 Logging In

After launching the Client application, the following window appears. Log in with either of the two built-in accounts, *Administrator* or *User*. No password.

Log-In Window



7.2.1 Locate the Server

The Client will search the Network for mColor servers, displaying all that it finds in the Server list box. If you cannot see your server, verify that it is running before clicking the Find Servers button. The system will also accept entry of the specific Server name or the IP Address of the Server platform using the Add Server dialog.

7.2.2 User Name

Enter your User Name and password, if any. User names and passwords are case sensitive. The computer will remember your password after activating the **Remember Password** box. Similarly, the Client will automatically log in to the server during the next launch after activating the **Automatic Log In** box. Note: Activating either of these check boxes will allow others with access to your computer to use the Client without supplying a username or password.

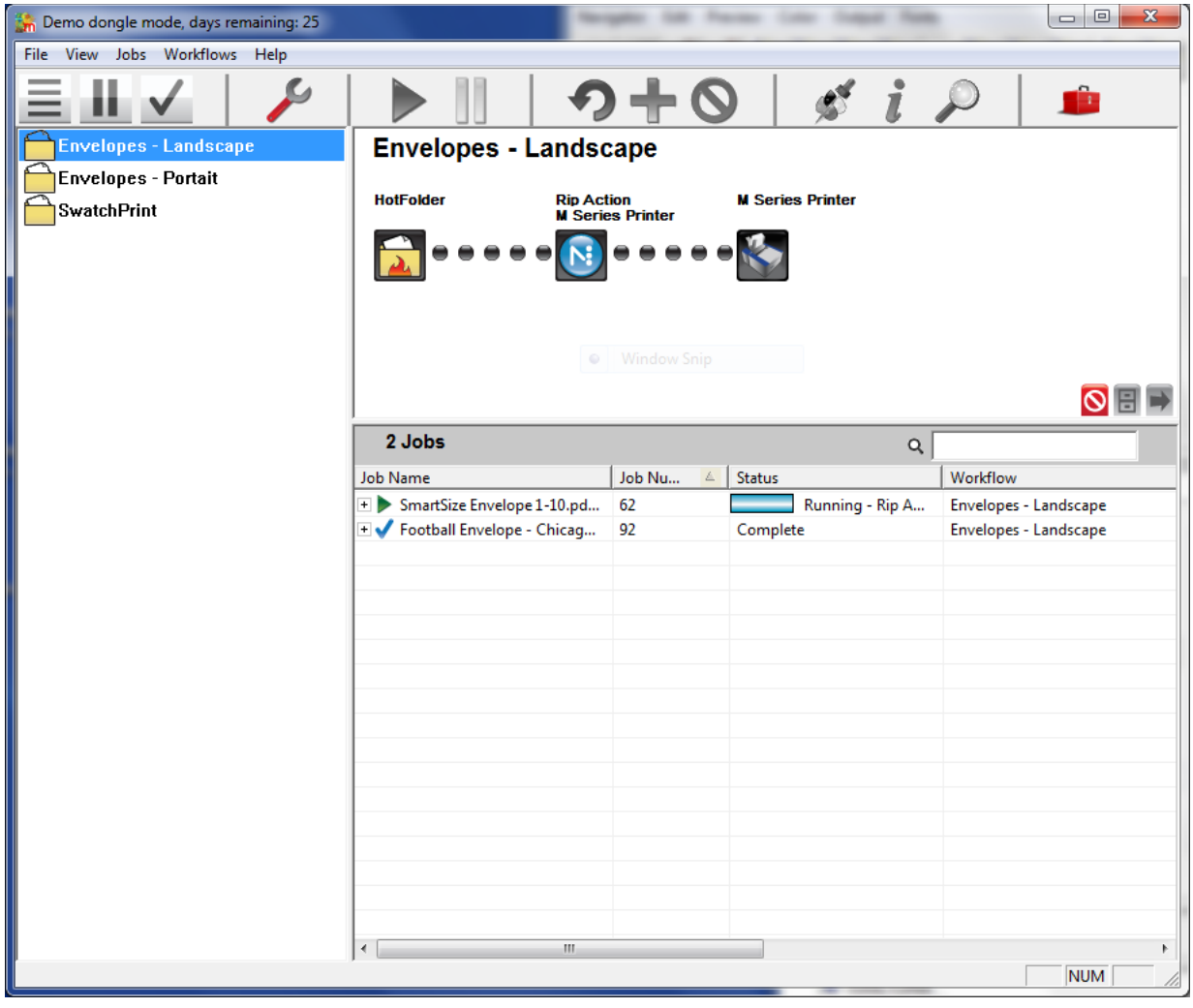
Click **OK** and the Client will attempt to Log In to the Server.

7.3 Creating Workflows

During the first login, if there are no jobs or Workflows in the System, an empty dialog will appear. The first necessary step is the creation of a workflow by going to the **Workflows > New Workflow** menu selection. The view will change to the Workflow Edit view, and the New Workflow dialog appears.

(You can also change to the Workflow Edit view at any time by using the icon in the Tool Bar).

Enter a Workflow name in the New Workflow Name dialog and click OK. In this example, the first workflow name is "Envelopes - Landscape".



In the Workflow panel on the left side of the GUI are tabbed areas displaying all the Workflow Actions previously created at the Server. A new Workflow starts with just an input Hot Folder in the Workflow Diagram area. Select the RIP tab and use the mouse to click and drag the RIP Action icon onto the Workflow Diagram. Release the mouse button and the system will add the RIP Action icon to the Workflow Diagram. Next, select the Output tab and drag the RIP Output icon onto the Workflow Diagram. These will combine into the basic Workflow shown above.

7.3.1 General Workflow Configuration

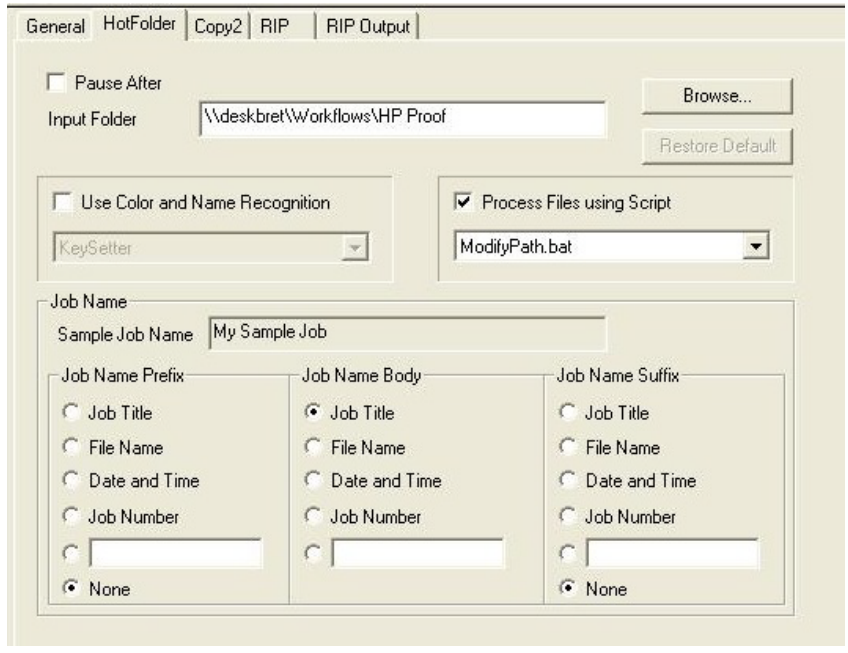
Each workflow is configurable through the tabbed menus in the lower portion of the GUI. Under the General tab are the following controls:

Workflow Name - changes the name of the selected workflow.
Priority - applied to jobs processed through this Workflow. If there are other Workflows competing for the same resource, as is usually the case, then **Normal** priority jobs are processed in the order in which they arrive. **High** priority

jobs are processed ahead of any **Normal** priority jobs and **Low** priority jobs are only processed when there are no other jobs waiting on the System.
Get Ahead - controls how many jobs the system will schedule at one time for a processing Action. The default value is 5 jobs. This should be changed when load balancing multiple RIPs, but not otherwise.
Send To Workflow - allows completed jobs to be sent to another workflow. This is a common way of linking workflows. Note that Send To Workflow sends the original job file.
Archive - places jobs in the Archive folder when deleted from the Workflow.
Delete - instructs the system when to delete jobs. Selecting **When Necessary** instructs the system to delete the oldest jobs in the system when it reaches a default limit of jobs. Set this job deletion threshold in "Server Settings".

Accept the default settings in the General tab for the moment, and select the **Hot Folder** tab by clicking on the tab itself or by clicking on the Hot Folder Icon in the Workflow Diagram.

HOT FOLDER CONFIGURATION



7.3.2 Hot Folder Configuration

The following controls are available for configuration of Hot Folders:

Input Folder - This selection is preset to the default job location defined in the Server setup. To change the Hot Folder location, use the Browse button. Remember that you are browsing from the location where the Server is installed, not your own workstation.
Use Color and Name Recognition – (This is a tool for support of output devices other than the M Series Printer and isn't currently applicable to that device.) This tool groups multiple TIFF files together as one job. Use with an appropriate configuration file from the Server's Color and Name Tool.
Process Files using Script – processes input files with a script. This is for field customizations and not used without the support department. Contact your dealer for more information.
Job Name - Several controls allow you to define how the system will name jobs during processing.

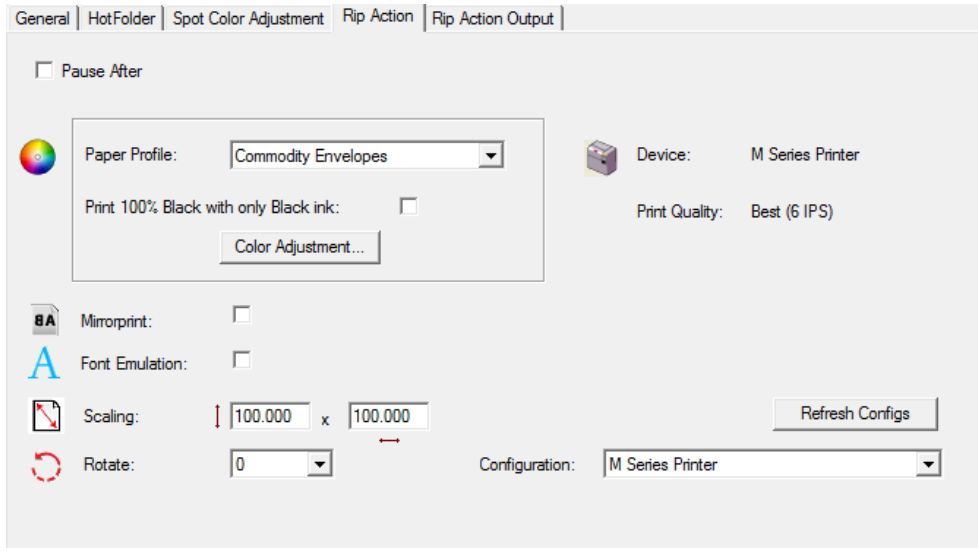
The **System Job Name** (the name displayed in the MColor Client) may contain up to three parts. Each part is set by the three columns of radio-buttons. To construct the Job Name, click on one button from each column. The functions of the buttons are:

Job Title –Original document name extracted from the postscript or PDF.
File Name – name of the file that contains the job
Date and Time – current date and time when the job was accepted into the system
Job Number –sequential job number
Edit Box – any arbitrary text
None – no entry for this part of the name.

Hold After – Activating this check box causes all jobs to enter a hold state after processing. The jobs are then manually released or sent to another workflow. Note that selecting this option causes a red circle to appear on the Workflow diagram to indicate the Hold function is active.

Next, configure the **RIP Action**. Go to the RIP Action by clicking on the tab or on the RIP Action icon in the Workflow Diagram.

RIP Action Configuration



7.3.3 Configuring the RIP Action

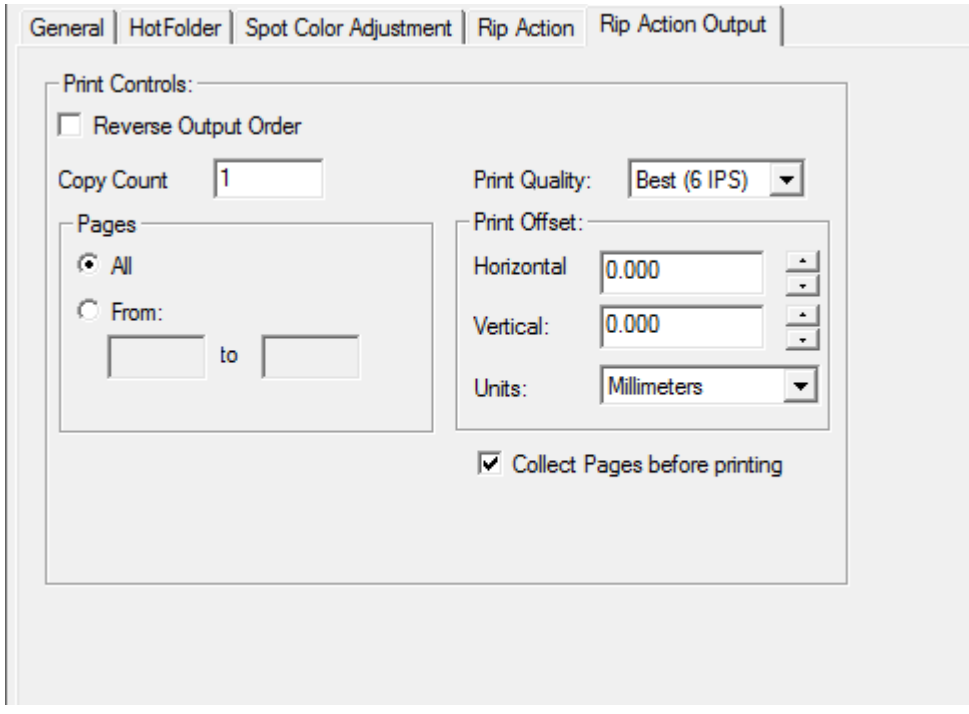
There are several controls in the RIP Action configuration dialog:

Paper Profile – Choose an appropriate color profile for your paper. There are several supplied profiles which cover a range of paper types. If you cannot decide from the list, consult the document "mColor paper profile cross reference.pdf". If you wish to get a custom profile created, contact your dealer. If you understand color profiling and wish to provide your own, you can consult the "ColorPro" document for information on how to install custom ICC profiles into the system.
Print 100% Black with only Black ink – To get the darkest black, mColor can make a black with color inks underneath it. Fine lines will not be as crisp when you do this. For reasons of either crispness of edges or economy, you can check this box to get a black made only with black ink.
Pause After – Causes all jobs to enter a Held state after RIPing, but before output. The jobs are then released manually.

You can preview ripped data prior to output when you check this box.
Mirrorprint – reverses output. Useful for transfer applications.
Font Emulation: The RIP can create missing fonts from the low resolution preview data in a job. If your customer fails to embed fonts in a PDF file, the RIP can compensate if you check this box. Without checking this box you might see font substitution for Courier when fonts are missing.
Scaling – scales via percentage numbers. This can be square (if the numbers are equal) or it can be anamorphic (if the numbers are not equal).
Rotate – there are 4 choices and they are expressed in degrees. Zero degrees is unrotated. 90 degrees and 270 degrees are both 90 degree rotations, in opposite directions. 180 rotates a job so it is upside down.
Mirrorprint – reverses output. Useful for transfer applications.
Configuration and "**refresh configs**" – A Harlequin RIP uses a framework known as a "Page Setup" to store RIP configuration data. If you are familiar with Harlequin RIP operation and wish to create some more, you may certainly do so. After the installation of mColor, there is just one configuration, *M Series Printer*. This is all that is necessary.

7.3.4 Configuring the Output Action

OUTPUT ACTION CONFIGURATION



Reverse Output Order – causes the last page to output first, and the first last. This is useful for ordering a multiple page document properly.
Copy Count – Enter any number here to change the number of copies printed. This feature is also found in each job's contextual menu (right-click on the job).
Pages – All or From X to X. This allows control over which pages you print in a multiple page job.

Print Quality – The printer is capable of two quality modes; *Best*, which outputs at 6 inches per second and at a resolution of 1600x1600; and *Fast*, which outputs at 12 inches per second and a resolution of 1600x800.
Print Offset – Use this to move the image around on the paper until it lands in the correct place. This should only be used if necessary. Try printing some jobs before you change this. If jobs are shifted on your printer, adjust it here.
Collect Pages before printing – Please leave this checked unless instructed to do otherwise by support.

Click the button to commit the changes. Your workflow is ready to receive jobs, rip , color manage, and output them to the printer.

7.3.5 Submit a job to the client

If you have a PostScript or PDF file of your job the easiest way to submit it to a Workflow is to drag it onto the client window. You can either drop the job on one of the workflows on the left side of the screen, or onto the large workflow image at the top of the screen. Both have the same effect. The system will place the job in the designated Hot Folder and the workflow will process it as if it had arrived in the Hot Folder from elsewhere.

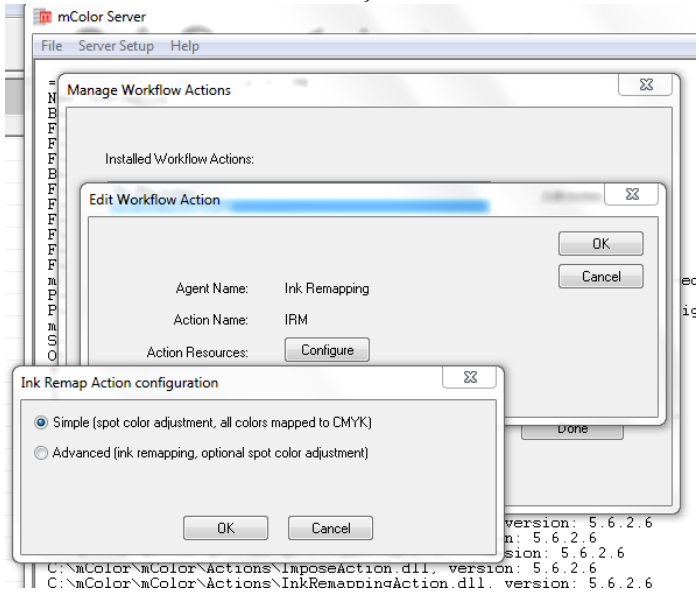
You may also select the menu option "New Job", navigate to your job, and choose a workflow from the drop down menu.

To test your workflow drag a PDF file onto the workflow diagram, or onto the workflow folder in the left column, or into the hotfolder located at *C:\mColor\Workflows\Envelopes – Landscape*.

Chapter 8: Color Adjustments

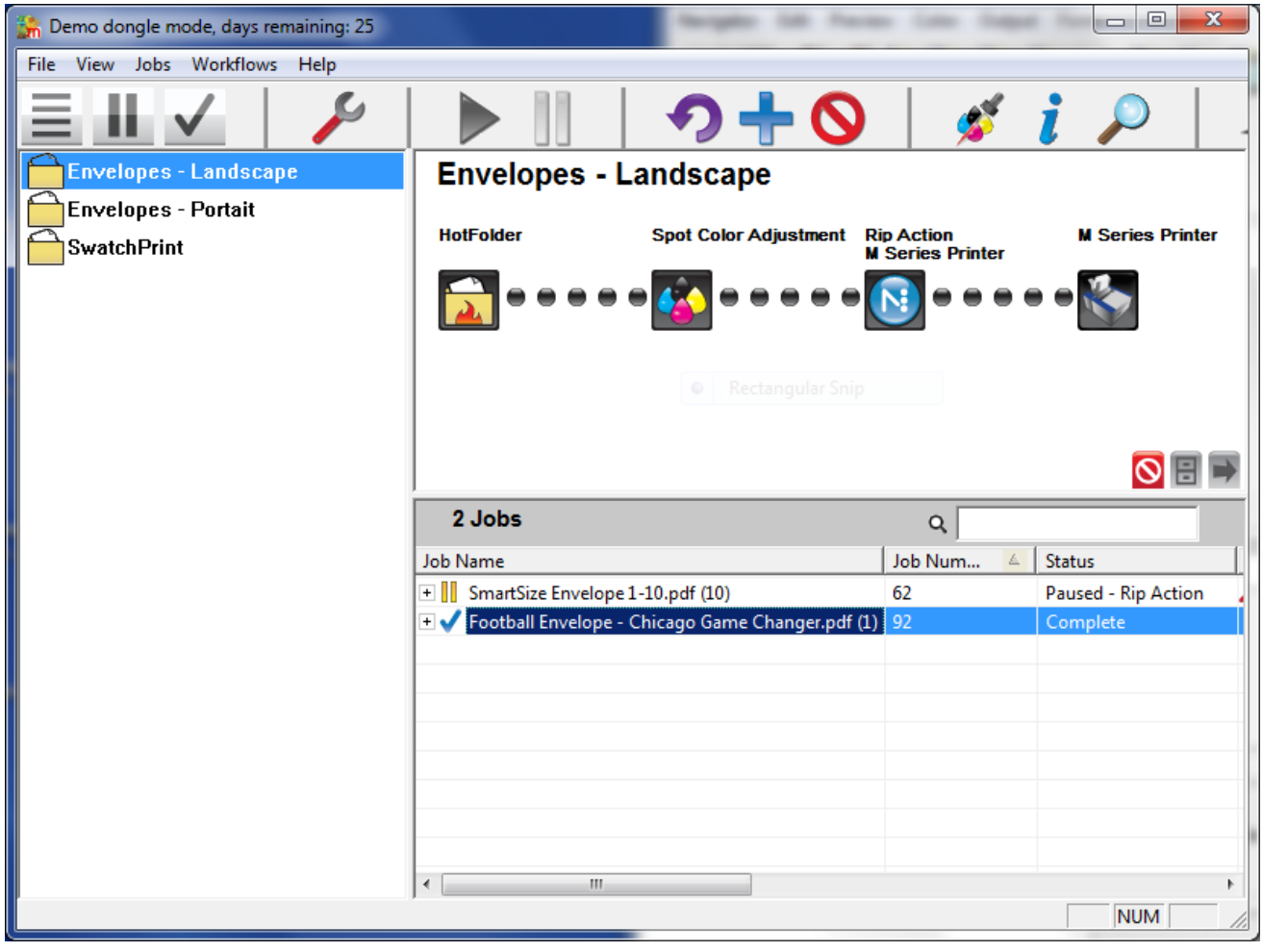
8.1 Spot Color Adjustments

Spot Color adjustments takes the form of a workflow action. The ink remapping action performs two functions. For separation devices such as film or plate imagesetters, it merges spot color plates together. For CMYK output devices such as an inkjet device it allows changes to the CMYK recipe for a particular spot color. It is this function which we are interested in with the M Series inkjet devices. At the Server, the configuration looks like this:



The spot color adjustment tool may be dropped into any workflow. The function requires PDF files with identified spot colors to operate.

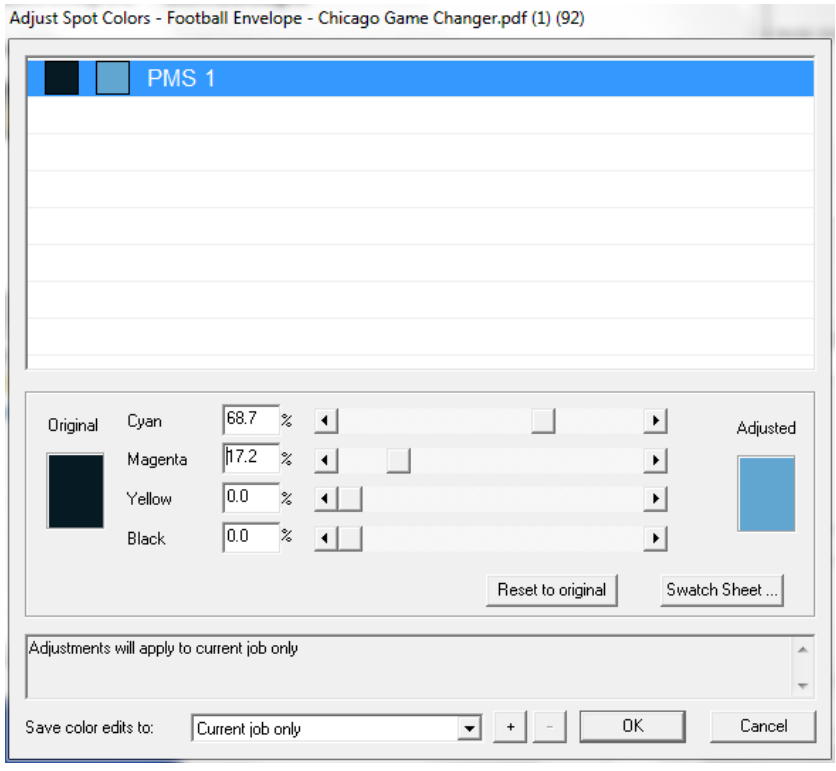
Below is a workflow with spot color adjustment enabled.



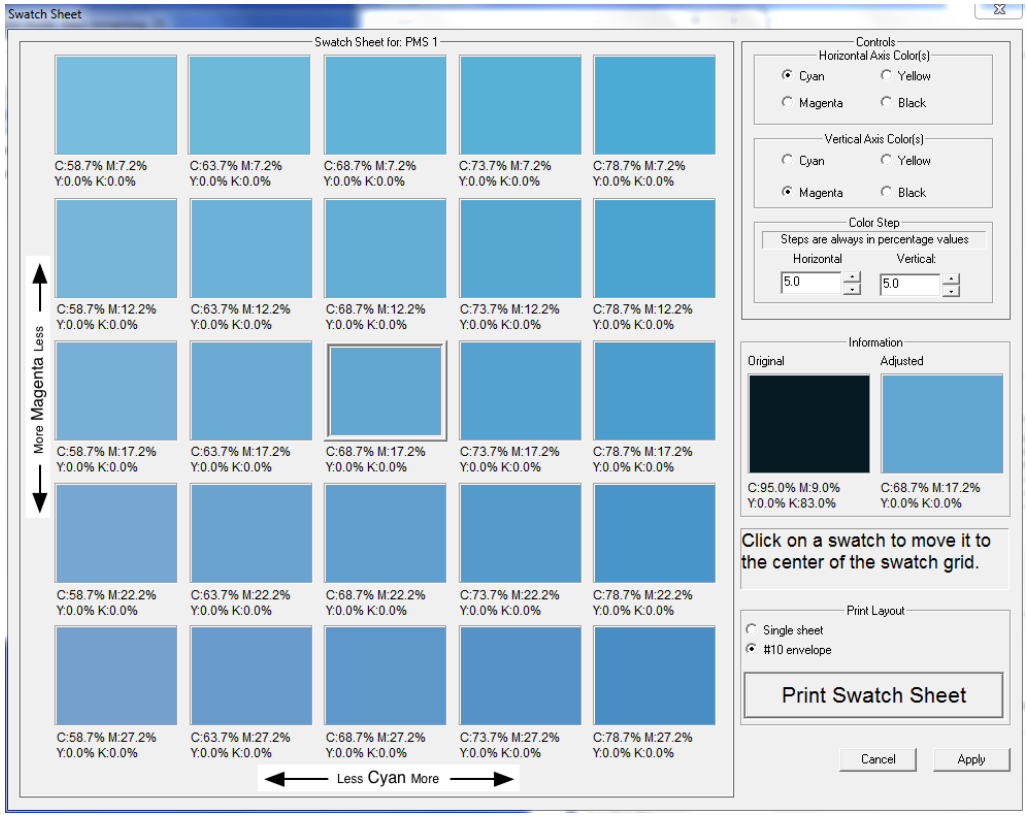
If you wish to adjust the colors for each job, put a pause after the spot color adjustment in the workflow editor. If you only wish to adjust colors after having first printed a copy, put no pause. After outputting one copy, right-click the job and choose *"spot colors"* from the contextual menu.

(or click the button) at the top of the screen)

This will allow you to enter the spot color adjustment dialog box.



If the user is comfortable editing the Cyan, Magenta, Yellow, and Black values directly, they may do so here. Most users will prefer some help from the system in getting the right color.
Click "Swatch Sheet" in order to get that help.



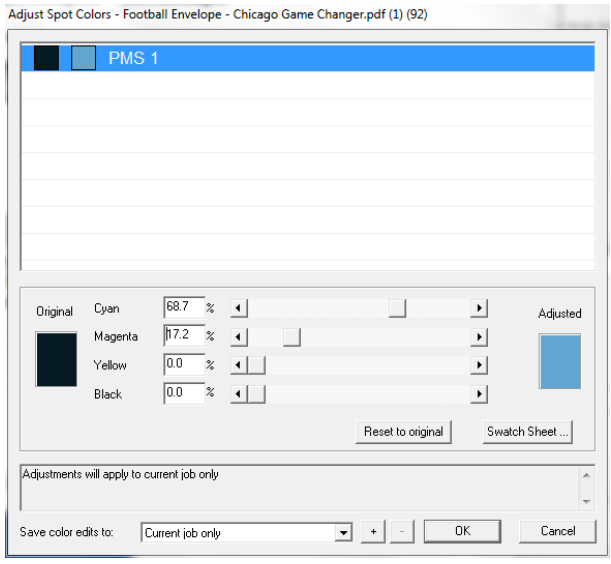
The swatch sheet window has controls allowing the user to vary the color from swatch to swatch and print out a letter-sized sheet or a #10 envelope with a swatch sample resembling the swatch window.
Choose two colors to change and choose a step amount to control how much the change will be.
Choose a paper size and click Print Swatch Sheet.
(Note: This function requires a workflow called "SwatchPrint" that connects to the M Series Printer and consists of a hotfolder, a RIP action, and an output action. This workflow will have been installed by default but if it has been inadvertently deleted, you may simply recreate it)

Your swatch sheet will print.

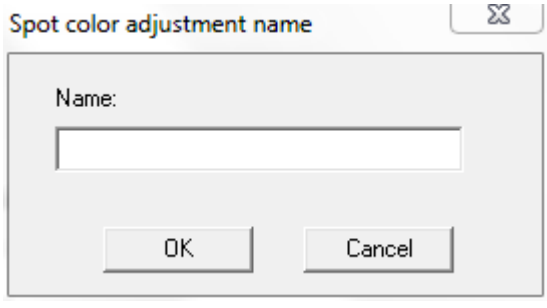
You may fold it, tear it, use it however you like. Compare it to acceptable printed output, compare it to a printed swatchbook, compare it to a t-shirt, or anything at all that you would like to get closer to.
Click the square you think is closest and it will become the center square. Then, you can output again and try to get closer, or commit the changes and output your job.

8.2 Spot Color adjustment databases

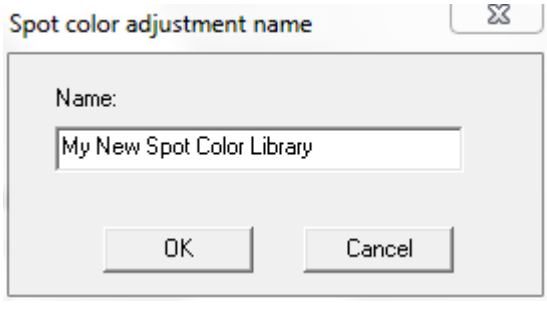
Once you adjust a color, you are free to use it again and again as long as you save it in a database.

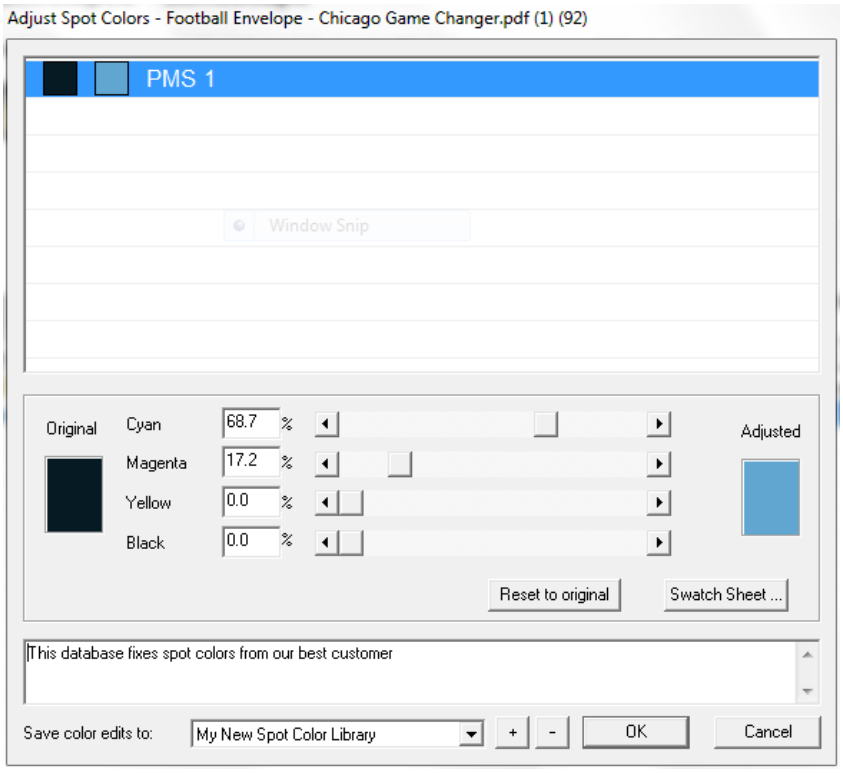


Instead of leaving the color edits to affect "Current Job Only", choose a database from the drop down menu to save them to. Or click the + sign to the right to create a new database.



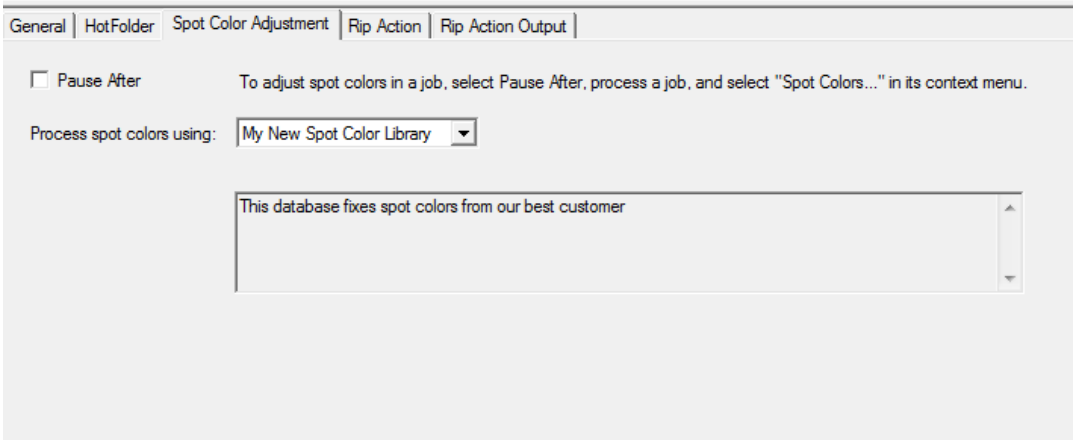
Pick a name that will help you to know when to use this database in future.





Add notes that help to describe the proper use of the database.

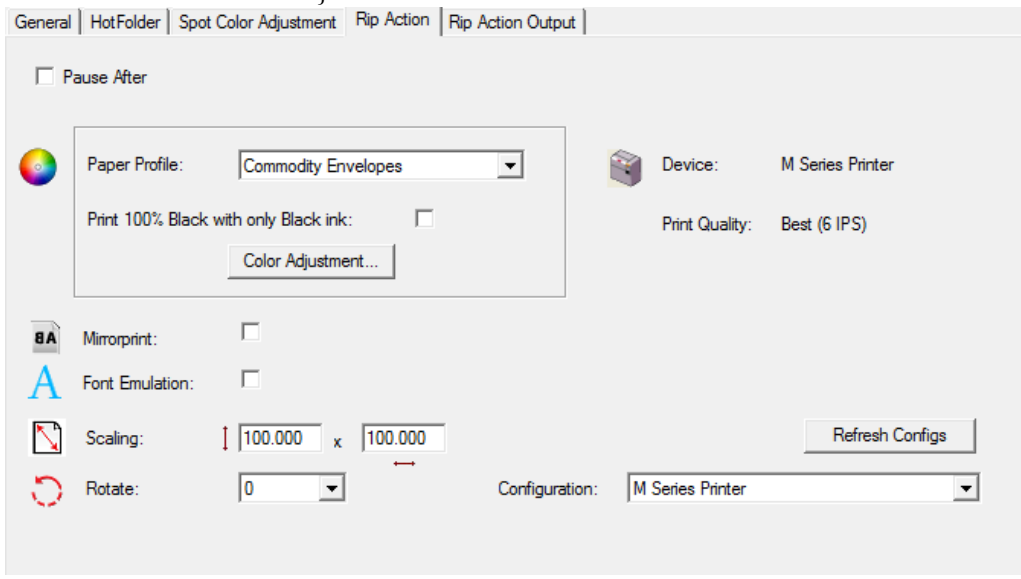
You can then choose this database in a workflow so that it automatically processes incoming jobs with the color edits in that database. No user intervention required. You might name a database after a particular customer, or a paper stock.


General
HotFolder
Spot Color Adjustment
Rip Action
Rip Action Output
Pause After
To adjust spot colors in a job, select Pause After, process a job, and select "Spot Colors..." in its context menu.
Process spot colors using:
My New Spot Color Library
This database fixes spot colors from our best customer

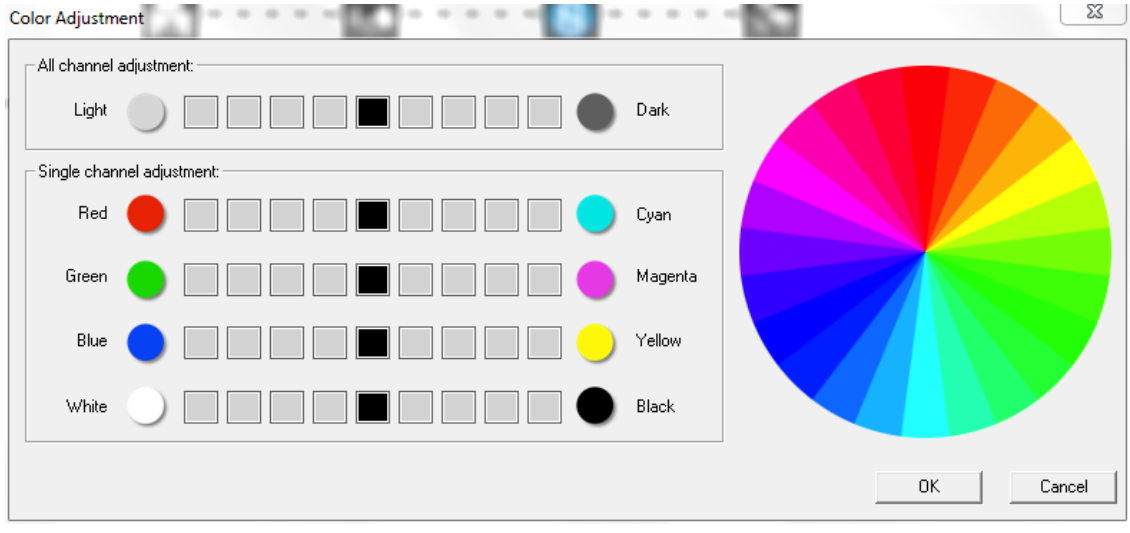
8.3 Global Color Adjustment

Global color adjustment works on any file format the system accepts. (e.g. postscript, PDF, EPS, TIFF) It works on every color in a job. Whether the job contains RGB, CMYK, spot colors, or a combination of all of these, the global color adjustment tool will adjust the color of the entire job.

Its function is simple.
When you wish to use it, right-click a job and choose "edit workflow for this job".
On the RIP tab click "color adjustment"

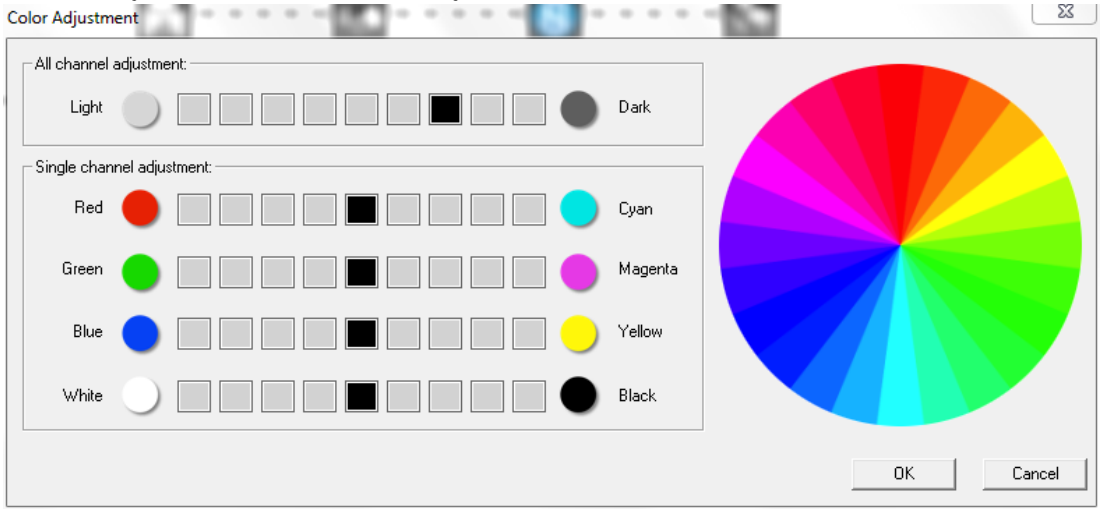


When you click color adjustment the window pops up

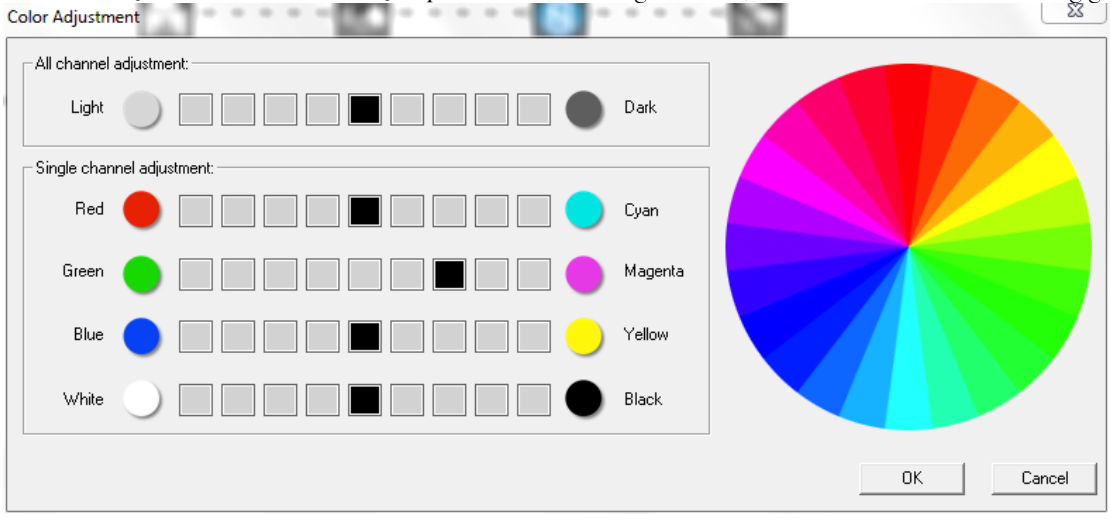


Simply click to the right or to the left.
The color wheel is provided as a reference to color relationships. When you add cyan ink, it has the effect of removing red from a job. When you remove yellow it has the effect of increasing blue.

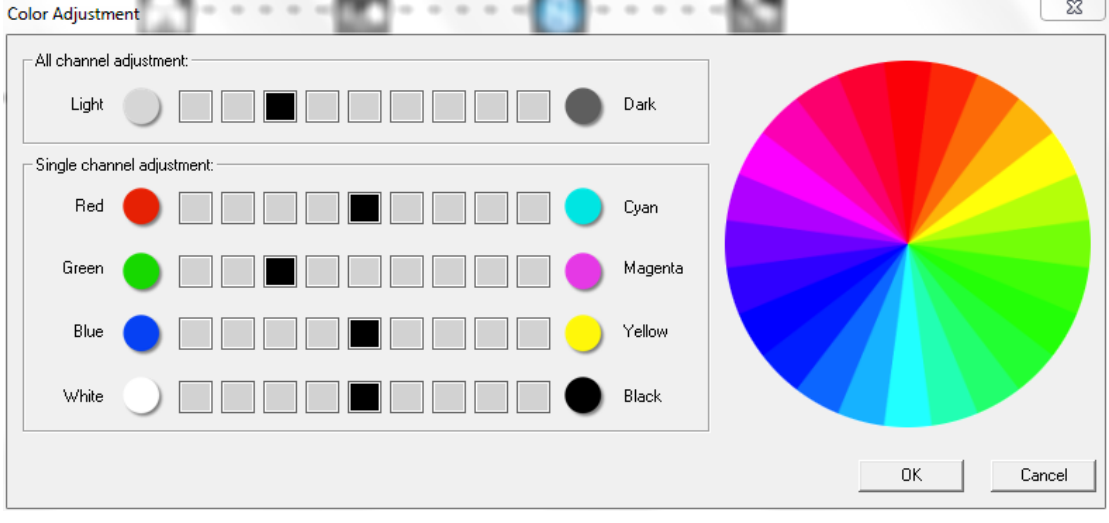
The color adjustment below will make the job darker.



This color adjustment will make the job print with more magenta ink (which has the effect of reducing green).



This color adjustment will lighten job and also remove magenta.

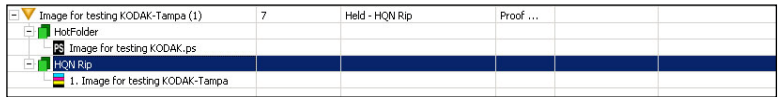


Chapter10: Previewing jobs

The mColor system includes an integrated Viewer to preview jobs after RIPing and before output. This section will illustrate the preview of both composite color images intended for proofing and separated, screened images intended for final output.

Return to the All Jobs view. Locate or create a job that has been run and held. Double-click on the job (or click on the plus symbol) to expand the job "tree." Repeat this process on each folder revealed until the whole tree has been expanded. If the job was a color job and was allowed to process to the point of a pause after the RIP, it should look similar to the job shown below

Expanded Job Tree with Composite PGB



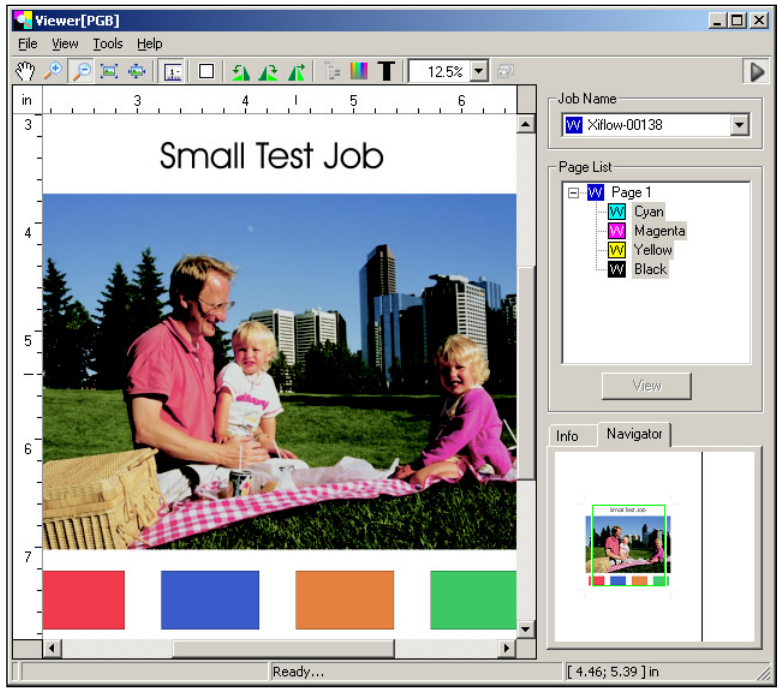
Under the folders you will see two files. The original job file with a ".ps" (PostScript) extension and the RIP Page Buffer file (PGB). The PGB file is identifiable by its location within the RIP folder because only Page Buffer files can appear here. The fact that there is only one PGB file for the job and that it has a multicolored icon as shown above tells us that this is a Composite Page Buffer.

Highlight the PGB file, right-click and select **View PGB**; or click on the **Preview** button; or double-click the PGB file.

The Viewer will launch and details of the PGB file appear in the lower right panel labeled, "Info." (See Appendix A for complete details about the Viewer.) Select the Navigator tab to see a thumbnail view of the page. Click on the image and the main panel will shift to a 100% scale view of the same area. Zoom in and out by selecting the + and – buttons and double-clicking on the image, or by selecting a resolution from the list. Pan the image by holding down the mouse button on the image and moving the mouse around.

The Preview will be similar to the example shown below.

Preview Image

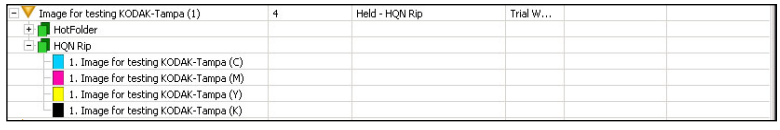


Use the Preview to check the job for proper orientation, fonts, dimensions, etc., before releasing it to the next stage (provided the Workflow is set to **Hold** in the RIP Action Configuration tab). Close the Preview window and return to the Job View in the MColor Client.

This time expand one of the jobs with an orange triangle in the Hi Res Workflow.

Because these are separated Page Buffers, the expanded tree will look like the example below.

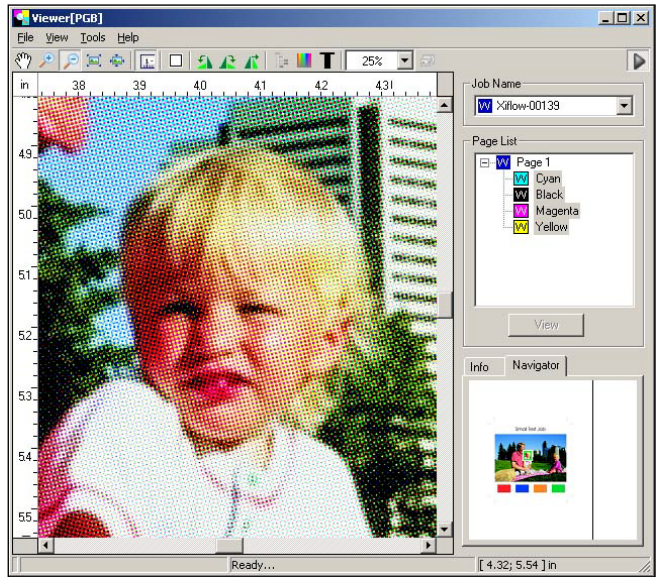
Expanded Job Tree with Separated PGBs



Again highlight one of these PGBs and select the **Preview** button.

With a file created for final output to an imagesetter or platesetter, the preview image will show the screening used during the RIPing process. It is also possible to display individual colors or combinations to review traps, knockouts and overprints.

PREVIEW WITH SCREENED IMAGE



For more details on the viewer see Appendix A.

10.8 Final Output

After approving the job based on the preview image, output the separations to the plate or film device by right-clicking the job and selecting **Release** to next step.

10.9 Deleting & Archiving Jobs

To delete jobs from the system, highlight them (select a group of jobs together using the mouse and the shift or Ctrl. key on the PC, or holding the mouse button and dragging the mouse over the files on the Mac). You can then either right-click and choose Delete or use the Jobs menu to access the Delete selection. Also, after highlighting you may delete jobs by using the Delete key on the keyboard, or the Delete Jobs button in the client window.

Earlier, we activated the Archive check box in the General tab of the High Res Workflow. Therefore, after deleting jobs from this Workflow, the system automatically archived them. To retrieve these jobs, path to the System Archive location set during MColor Server configuration. Within the Archive folder, MColor creates dated folders for each month that jobs were archived. Within each monthly folder are dated folders for each day. Jobs archived today will be in a folder labeled with today's date. Re-introduce these jobs to MColor by using the **File > New Job** menu selection and fetch the job from the Archive folder.

Note: The system archives the original files (PostScript, PDF), pre-flighted files and other intermediate steps. The system does NOT archive the RIPed page buffer files.

Chapter 11 – The MColor Client in Detail

11.1 Menu Bar Items

11.1.1 The File Menu

The **File** menu contains the following items:

New Job

This selection opens the New Job Window for associating files with a workflow and importing jobs for processing. When using this method to submit jobs, choose the job for processing and the workflow that will process it.

Login

This selection allows a user to log into the Server. It is only an option when there is no user already logged in to the system.

Logout

This selection allows a user to log out of the Server. It is only available if a user is logged in.

User Info

This selection opens a dialogue supplying the following information about the current user: User Name, User Rights / Permissions, Name of the Server to which the Client is connected.

Reset Preferences

This selection resets Client Preferences to factory defaults.

Exit

Selecting Exit closes the Client.

11.1.2 The Jobs Menu

The **Jobs** menu contains the following items:

Note: The items listed below are only valid in relation to a Job within the Workflow. They will only become available after highlighting (selecting) a job in the Client Job List.

Get Info

This selection opens the Job Information Window.

- This function is also available by right-clicking on a job and choosing **Get Info** from the pop-up menu, or by clicking the **Get Info** button on the Tool Bar.

The Job Information Window provides an overview of the job. It can be used to change the job name reported in MColor Client and enter data into the Custom Fields. Other information displayed includes Job Status, the Workflow name where the job resides and a log of the job's progress through the system.

Flag

This marks a job so that it may not be deleted. In order to delete a flagged job, it must first be "un-flagged." This may be useful for repeat work.

Delete

Selecting Delete after highlighting a job will cause the system to delete the selected file. Use delete to remove any job or sub-file within a job.

For example, it is possible to use delete to remove an unwanted PGB (RIPed page or separation) file, or an unwanted color at the last minute before sending the job to output. Note: Deleting a sub file will remove it from the system entirely.

- Delete will only be available after highlighting an appropriate file in the Job List.
- This function is also accessible by right-clicking on a job and choosing **Delete** from the pop-up menu or by clicking the **Delete** Button on the Tool Bar.

Edit Workflow for This Job

This will put the MColor Client in Edit Workflow mode for making changes to the workflow of the selected job ONLY. (On the Mac client, this reads **Edit Workflow**)

- This function is also accessible by right-clicking on a job and choosing Edit Workflow for this Job from the pop-up menu.

This is a powerful tool that allows changes to the workflow settings only of a specific job. For example, if a job errors when sent as a PostScript file, running it through the Stabilizer to create a PDF file may allow it to run. Using this option, a user can add a Stabilization Action to the workflow of the selected job. By releasing only the file in the "Hot Folder" to the next step, the system will re-process the job, this time with a Stabilization Action. Similarly, if a PDF job errors, a user can add a Preflight Action to the selected job's Workflow without having to create an entirely new Workflow to perform the specialized Preflight task required.

Pause Job

Choosing this selection will cause the system to pause processing of the selected job.

- This function will only be available if the selected job status is such that a pause is a logical step. For instance, Pause Job will not be available if the Job's Status shows **Completed**.

- This function is also accessible by right-clicking on a job and choosing Pause Job from the pop-up menu.

Copy

This menu item will open a list of established Workflows in the system. Choosing one of the Workflows listed will cause the system to process a copy of the job using the selected workflow. The original Job remains unchanged.

- This function is also accessible by right-clicking on a job and choosing Copy from the pop-up menu or by clicking the **Copy** Button on the Tool Bar. Using the PC client, a user can also drag and drop the job while holding down the **Control Key**. Using a Mac, the same function is available using the **Option Key**.

Restart Job

This menu item will open a list of established Workflows in the system. Choosing one of the Workflows listed will cause the selected job to restart from the beginning, using the original input file, through the new Workflow selected.

- This function is also accessible by right-clicking on a job and choosing Restart Job from the pop-up menu or by clicking the **Restart Job** Button on the Tool Bar. In addition, simply dragging the job onto a new Workflow will have the same effect.

Release to next step

This selection releases the selected job from a Hold or Pause Status to the next process specified in the Job's Workflow.

- This function is also accessible by right-clicking on a job and choosing Release to next step from the pop-up menu or by clicking the **Release** to next step Button on the Tool Bar.

Send selected file to next step

Releases the selected file from within a job – an individual PS/PDF/PGB (a RIPed page or separation) – file to the next process specified in the Job's Workflow.

For example, if it is necessary to release only one of the pages or separations of a job to the Output Action for imaging, it is possible to highlight the desired page or separation and, by choosing **Send selected file to next step**, only release that separation or page for output.

- Send selected file to next step will only be available after highlighting an appropriate file in the Job List.
- This function is also accessible by right-clicking on a job and choosing Send selected file to next step from the pop-up menu.

Set Priority

This menu item will open a list of Job Priority settings (Low, Normal and High). Choosing one of these priority settings will change the priority for the selected job.

- This function is also accessible by selecting the job, right-clicking and choosing Select Priority.

Open File

Choosing this menu item will open the selected file in the proper editing/viewing program. For example, after highlighting a PDF file and selecting Open File the PDF file will open in Adobe Acrobat for review and editing, provided Acrobat is available on the system. Similarly, The Viewer will launch after highlighting a PGB file (a RIPed page or separation) and selecting **Open File**.

- Open File will only be available after selecting an editable or viewable file type in the Job List window.
- This function is also accessible by right-clicking on a job and choosing Open File from the pop-up menu, by clicking the **Open File** Button on the Tool Bar, or double-clicking on the PGB or PDF file. (PDF files will only open if you have Adobe Acrobat or Acrobat Reader installed on the system.)

See Appendix A for a description of the Viewer and Viewer functionality.

The following two items are for configuration preferences and are not job related. They are available at all times.

Column Headings

This selection opens a dialogue allowing the user to turn on and off the column headings that display job information in the Job List Window Panel.

Viewer Properties

This menu selection opens a window allowing the user to adjust Viewer settings such as disk usage, memory allocation and initial down-sample sizes. See Appendix A, Section A.2 for details.

11.1.3 The Workflows Menu

New Workflow

This menu selection begins the process of creating a new workflow.

Cancel Any Changes

Cancels all changes made in creating or editing Workflows during the current editing session. This option will be grayed out (unavailable) if the user is not in Workflow Edit Mode.

Note: If you leave the Workflow Editing mode by changing to a Job View mode, all changes made during Workflow Editing are automatically saved and applied to all future jobs.

Copy Workflow

This selection opens a sub menu listing all of the Established Workflows in the the system. Choosing one of the listed Workflows will copy its parameters to a new Workflow. The user must provide a new name for the copied Workflow. After copying and naming a Workflow it will immediately be available for editing. This function is also accessible by right-clicking on a workflow icon in the Left Window Pane (Workflow list) and selecting **Copy Workflow** (Control-click on a Macintosh).

Edit Workflow

This selection opens a sub-menu listing all of the Established Workflows in the the system. Choosing one of the listed Workflows will allow editing of the parameters for that workflow. The system will save changes when exiting Workflow Edit mode using the "Edit workflow Icon" in the Tool Bar or by changing from the Workflow Edit mode to a Job View mode. This function is also accessible by right-clicking on a workflow, and selecting **Edit Workflow** (Control-click on a Macintosh), or double-clicking on the Workflow name.

11.1.4 The Help Menu

About

Selecting this displays the release version and Copyright information for the MColor Client.

11.2 Tool Bar Items

The tool bar uses graphic buttons to represent the most commonly used MColor Client functions. From left to right, the three sections are; Job View, Workflow Edit, and Job Management.

11.2.1 Job View Section

The View All Jobs Button:

Clicking this button will place the Client in Job View Mode. The left panel of the Client window will display icons for each of the established Workflows. The right panel of the Client window will display a list of all jobs in the system.

The View Held Jobs Button:

Clicking this button will place the Client in Job View Mode, but will only show those jobs that are on hold. The left panel of the Client window will display icons for each of the established Workflows. The right panel of the Client window will display a list of all held jobs in the system.

The View Completed Jobs Button:

Clicking this button will place the Client in Job View Mode, but will only show completed jobs. The left panel of the Client window will display icons for each of the established Workflows. The right panel of the Client window will display a list of all completed jobs in the system.

11.2.2 Workflow Edit Section

The Edit Workflow Button:

Clicking this button will put the Client into Edit Workflow mode. (Or, if you are already in Edit Workflow mode it will return you to Jobs View mode.) The currently selected or last selected Workflow will be the one the system opens for editing. This function is also accessible by right-clicking on a workflow, and selecting **Edit Workflow** (Control-click on a Macintosh).

The left window panel in client will display a list of Available Workflow Components called Actions. The upper right window panel will display a graphical representation of the selected Workflow configuration. The lower right window will display the configuration tabs for the selected workflow.

11.2.3 Job Management Section

Release to Next Step Button

Releases the selected job from a hold applied in the Workflow Configuration (or a manual Pause) to the next process specified in that Workflow. This selection will be gray and inaccessible without first highlighting a job in the Job View Window.

This function is also accessible by right-clicking on a job and choosing **Release to next step** from the pop-up menu or by selecting **Release to next step** from the Jobs Menu (Control-click on a Macintosh).

Delete Button

This function deletes the selected file. Delete can remove any job or sub-file within a job.
For example, it is possible to use delete to remove an unwanted PGB (RIPed page or separation) files, or an unwanted color, before sending the job to output. Caution; deleting a sub file will remove it entirely from the system

- Delete will only be available after highlighting an appropriate file in the Job List.

This function is also accessible by right-clicking on a job and choosing **Delete** from the pop-up menu or by selecting Delete from the Jobs Menu, or by using the Delete key on the keyboard .

Restart Job Button

Clicking this Button will open a list of established Workflows in the system. Choosing one of the Workflows listed will cause the selected job to restart from the beginning using the chosen Workflow.

This function is also accessible by right-clicking on a job and choosing Restart Job from the pop-up menu or by selecting **Restart Job** from the Jobs Menu (Control-click on a Macintosh). In addition, dragging the job onto the new Workflow has the same effect.

Copy Job Button

Clicking this Button will open a list of established Workflows in the system. Choosing one of the Workflows listed will cause the system to process a copy of the selected job by the Workflow chosen without affecting the original job.

This function is also accessible by right-clicking on a job and choosing Copy Job from the pop-up menu or by selecting Copy Job from the Jobs Menu (Control-click on a Macintosh). In addition, dragging the job with the Control key (PC) or Option Key (Mac) has the same effect.

Get Information Button

Clicking this button opens the Job Information Window.

This function is also accessible by right-clicking on a job and choosing **Get Info** from the pop-up menu (Control-click on a Macintosh).

The Job Information Window provides an overview of the job. It can be used to change the job name reported in MColor Client and enter data into the Custom Fields (see Section 3.7 of the MColor Server User Guide). Other information displayed includes Job Status, the Workflow name where the job resides and a log of the job's progress through the system.

Open File Button

Choosing this menu item will open the selected file in the proper editing/viewing program. For example, after highlighting a PDF file and selecting **Open File**, the PDF file will open in Adobe Acrobat for review and editing, provided Acrobat is available on the system. Similarly, The Viewer will launch after highlighting a PGB file (a RIPed page or separation) and selecting **Open File**.

- Open File will only be available after selecting an editable or viewable file type in the Job List window.
- This function is also accessible by right-clicking on a job and choosing Open File from the pop-up menu, by clicking the **Open File** Button on the Tool Bar, or double-clicking on the PGB or PDF file. (PDF files will only open if you have Adobe Acrobat or Acrobat Reader installed on the system.)

See Appendix A for a description of the Viewer and Viewer functionality.

Toolbox button

Choosing this menu item will open a browser window and connect to the HTML server in the printer allowing the user to control maintenance and feedback functions.

11.3 Post-Processing Bar

The Post-Processing Bar is an informational icon. It illustrates any actions that will be taken after the selected Workflow has completed processing of a submitted file. The Post-Processing Bar displays three post-processing functions.

If the icon in the Bar appears in color, that function has been activated for the current Workflow. If it is gray, the corresponding function is not active. Each Post-Processing function is available in a sub-section of the "General" Workflow Configuration Tab, discussed later in this Chapter.

Delete

Delete instructs the system when to delete jobs. Selecting When Necessary instructs the system to delete the oldest jobs in the system when it reaches a default limit of 250 jobs.

Archive

Archive tells the system to Archive completed files. Archiving will take place when the files are scheduled for deletion from the system.

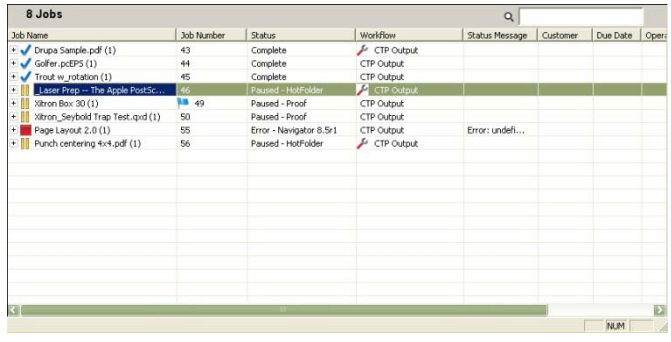
Send to Another Workflow

This icon indicates that completed files will move on to another established Workflow for further processing.

11.4 The Job List Panel

The Job List Panel will take up the entire right side of the Client window or the lower right side of the Client, depending on the Mode the Client is in. When viewing All Jobs, All Held Jobs or All Completed Jobs, the Job List Panel will take up the entire right side of the Window.

Job List Panel


8 Jobs
Job Name
Job Number
Status
Workflow
Status Message
Customer
Due Date
Drupa Sample.pdf (1) 43 Complete CTP Output
Golfer.pcEPS (1) 44 Complete CTP Output
Trout w_rotation (1) 45 Complete CTP Output
_Laser Prep -- The Apple PostSc... 46 Paused - HotFolder CTP Output
Xitron Box 30 (1) 49 Paused - Proof CTP Output
Xitron_Seybold Trap Test.qxd (1) 50 Paused - Proof CTP Output
Page Layout 2.0 (1) 55 Error - Navigator 8.5r1 CTP Output Error: undefi...
Punch centering 4x4.pdf (1) 56 Paused - HotFolder CTP Output
NUM

Four main functions are possible from within the Job View Window; searching for jobs, reviewing and sorting Job information, opening editable or viewable files and controlling Job files.

The Job View Window appears in columns and rows. The columns provide different information about each job. Columns are configurable and adjustable for size. Each row in the Job View Window will contain information about a specific job or items contained within the Job, if the Job Information has been expanded.

11.5 Items in the Job View Window

Column Headings

Job Information Rows

Expansion Buttons

Found at the far left of the Job information row, these buttons are used to expand (+) or contract (-) the information for the selected job.

Job Status Icons

Green indicates the Job is Scheduled, Idle or Running.

Yellow indicates that the Job is Paused or on hold.

Red indicates that the job caused an error.

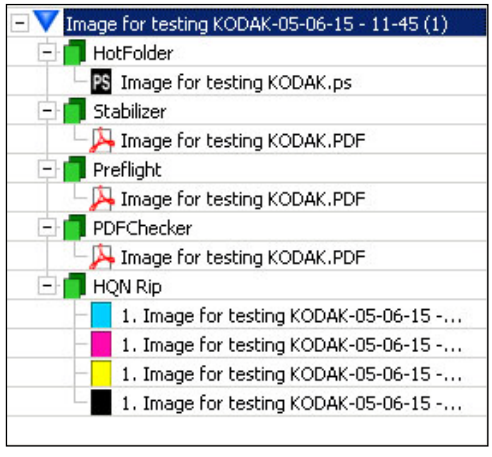
Blue indicates that the job is complete. This icon will appear as a blue circle on the Mac Client.

If the Job View has been set to show the expanded view, the Job Status icons on the PC will point downward as illustrated under Expanded Job View below.

Location Icons

Location icons indicate the location of files used by - or generated during - the processing of a job. Each location is specified by a location icon followed by the name of the Action completed to create the file found in that location.

Location Icons



The expanded Location Tree shown above illustrates the various steps and files produced in a workflow that includes the Stabilizer, Preflight, PDF Checker and RIP Actions.

11.6 File Type Icons

File Type icons appear in a number of different styles and colors. Rather than display them all, four representative types are shown below:

PostScript File Icon

Identifies the file as PostScript

PDF file Icon

Identifies the file as PDF

Preflight Report Icon

Identifies the file as a Preflight Report File. The system generates Preflight reports in PDF, viewable in any PDF viewing or editing software.

RIPed CMYK Separation Icon

Identifies a RIPed CMYK or Gray separation The color of this icon will change depending on the separation color.

RIPed Pantone Color Separation Icon

Specifies a RIPed Pantone Spot Color separation

RIPed Composite Page Buffer

Specifies a RIPed composite page buffer, usually for a proofing device

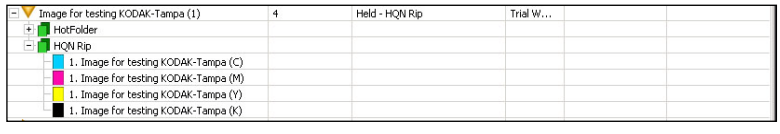
Unspecified Color RIPed Separation Icon

Specifies a RIPed separation of unknown color, usually a Black or Spot separation that has not been properly identified to the system.

11.7 Expanded Job View

Below is an example of an expanded job view displaying various job elements with Job View icons.

EXPANDED JOB TREE



11.8 Column Heading Functions

The Job View window contains a number of headings. There are standard heading fields that are not changeable and heading fields that are configurable to suit the information needs of a company's internal procedures.

Standard Headings/ Columns

Standard Column Headings can be turned on and off using the Jobs/Column Headings menu but they cannot be altered. The one exception is the Job Name heading which is always on. See Chapter 3 for more information about turning on and off display of Job View Columns

Job Name

Displays the Job Name as specified in the Workflow Configuration "Hot Folder" tab or as set in the Jobs Information window (see above and Chapter 3 for more information.)

Job Number

Displays the Job Number. This is a continuously incremented number applied sequentially to jobs as they arrive in the MColor Server system.

Status

This column displays processing status of the job. It will show if the job is held, processing (RIPing, Stabilizing, etc.), paused, post-processing, or completed.

Workflow

Displays the Workflow the Job is currently assigned to / processed by.

Priority

Displays the priority setting for the job. Job priorities can be set to Low, Medium, and High. They can be set for individual jobs or for all jobs coming into the system from a particular workflow. Priority will directly affect the order in which MColor Server processes jobs. See Section 8.3.1 for more information about setting job priority.

Status Message

This column displays messages that may clarify the Job's status, such as error messages sent by the RIP.

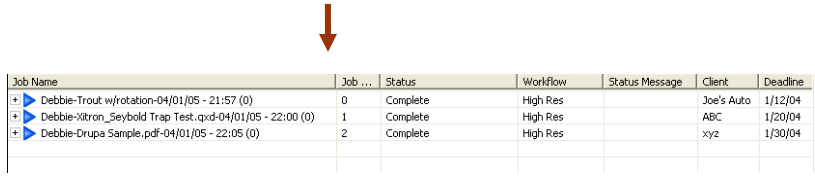
Configurable Headings

There are four configurable headings. The view of these headings can be switched on and off in the same manner as the standard column headings. The naming of these fields is performed in the Navigator Server.

Adjusting Column/ Heading Size

The size of each column is adjustable by clicking and holding the mouse on the left division or gutter between the columns. (An example using the Job Name Column appears by the arrow below.) While holding the mouse button down, drag the column gutter left to decrease the size of the column view and right to increase it.

COLUMN ADJUSTMENT



Job Name	Job ...	Status	Workflow	Status Message	Client	Deadline
Debbie-Trout w/rotation-04/01/05 - 21:57 (0)	0	Complete	High Res		Joe's Auto	1/12/04
Debbie-Xitron_Seybold Trap Test.qxd-04/01/05 - 22:00 (0)	1	Complete	High Res		ABC	1/20/04
Debbie-Drupa Sample.pdf-04/01/05 - 22:05 (0)	2	Complete	High Res		xyz	1/30/04

It is possible to make a column disappear by dragging the gutter too far to the left. If this occurs, go to the Jobs/Column Headings menu and switch off the column that has disappeared. Switch it back on and the column will return.

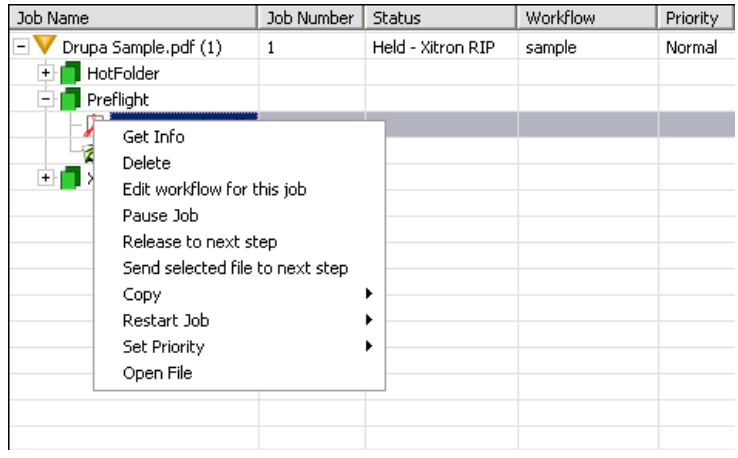
Sorting On Job Heading

Clinking on a column heading will sort jobs according to the information in that column. A small arrow will appear in the column heading to indicate if the sort is in ascending or descending order. Clicking on the column heading again will change the sort order to the opposite of its previous setting.

11.9 Controlling Jobs in the Job View Window

Workflow functions for each Job are controllable from within the Job View window. Clicking the mouse while on a job or a sub-file of the job will highlight the Job or sub-file, and right-clicking on the job or a sub-file of the job will open the Job Functions Menu (Control-click on the Mac).

Job Controls

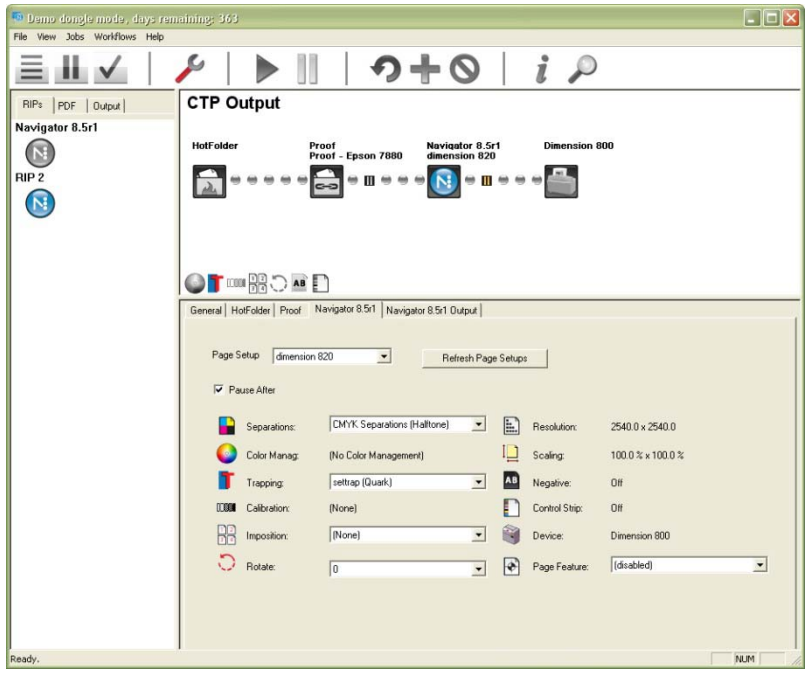


The functions of this pull-down menu are the same as the corresponding functions in the Jobs Menu found in the menu bar. See the explanation of Jobs Menu functions earlier in this chapter for a description of each menu selection.

11.10 Display Windows in Workflow Edit Mode

Any time a user creates or edits a workflow, the Client reverts to workflow edit mode. The Client window changes to show RIP Actions, PDF Actions and Output Actions to the left, the selected Workflow Diagram on the top right and the Workflow Edit Tabs on the bottom right.

Workflow Edit Mode



The Workflow Edit Tabs appearing will depend on which components were selected for a particular Workflow. As a system grows, users can add new Actions and these will have their own Tabs. To select a tabbed dialog, simply click on the named tab.

11.10.1 Workflow Edit Tabs

11.10.2 General

The General Tab contains the following Workflow configuration settings:

Workflow Name

Use this selection to enter or change the selected workflow name.

Priority

Three selections are available which will determine processing priority: Low, Normal and High.

Get Ahead

This number represents the number of jobs the system will "pre-schedule" for processing. If, for instance, there are 10 new jobs in a workflow and the Get Ahead is set for 5, the system will schedule five of the jobs for processing. The remainder of the new jobs will be in "idle" mode. As each job finishes

processing, the system will add the next new job, keeping the total of scheduled jobs at 5 or less, until all jobs complete.

To optimize the workflow, change the Get Ahead entry to the desired number.

Get Ahead is also available when more than one RIP action is set in the same workflow. By using multiple RIP Actions (attached to different RIPs) it is possible to "load balance" the RIPs. Setting a Get Ahead value will make sure that one of the RIPs will never be sent more jobs than the other RIP in excess of the established Get Ahead number.

That is, with a Get Ahead of 5, the system will pre-schedule five jobs for both RIPs. If one RIP is significantly faster, it is possible for jobs to remain scheduled for the slower RIP after the faster one finishes. In this case, a lower number (zero) is more conducive to equal distribution of jobs between two RIPs of different speeds.

When Job Completes Section

This special section tells MColor Server what to do with job files after all processing in the selected Workflow is complete. There are three choices as described below:

Send to Workflow

This is a very powerful tool for setting up complex workflows. By choosing to send a job to another Workflow after completion in the specified Workflow, the system can perform multiple tasks on the same job without user intervention.

For instance, it is possible to link a workflow set up for proofing to a workflow set up to drive an imagesetter. In this way jobs can be proofed and then imaged without having to reprint the job or manually restart the job.

Archive

Enabling this option will tell the system to Archive completed files. The system will store the original file in the Archive folder specified in the MColor Server. Archiving will take place according to the deletion settings in the MColor Server. Turning on Archive when "Send to workflow" is selected will have no effect.

Delete

After checking this selection, the system will delete files either immediately upon completion or as necessary after reaching a limit of jobs. This limit is editable in the "Server Settings" dialog box in MColor Server.

11.10.3 HotFolder

The Hot Folder tab contains the following options:

Input Folder

This field specifies the folder a workflow watches to bring jobs into the system. Navigator Server establishes a default folder for each workflow a user creates. In most cases this default folder will be sufficient and no additional configuration is necessary. With the PC Client, the default folder is changeable using the Browse button.

The Restore Defaults button resets the Input Folder to its default setting.

Hold After

Checking this box will cause the system to immediately place newly arriving jobs using this workflow on hold.

Once held, users can make changes to the Job's Custom Information Fields, or restart jobs in a different workflow.

Sample Job Name

This field shows an example of the how job names will appear in the MColor Server system with the words "My Sample Job" representing the incoming job name. As you add or remove options to the job naming template this example field will reflect the changes.

Job Name Prefix, Body and Suffix

The three settings, Prefix, Body and Suffix will add information to the displayed job name in the Client. Any mixture of the available settings is acceptable, including a custom prefix and custom suffix field. Prefix and suffix settings can also be disabled. However, there must always be a setting for body.

Appendix A – The Viewer

Note: RIP Manager offers two choices for the Viewer; the standard Viewer and Viewer Pro. The additional features in the Pro Viewer are discussed at the end of this Appendix in section A.4

A.1 Key Features

- Multiple scale factors – can zoom in and out.
- Intelligent ordering of files into jobs, pages and separations.
- Can rotate, mirror and negate the view
- Can view Traps and Rulers
- Accurate color mixing and display

PageBuffer Files

This appendix makes reference to PageBuffer files and it is helpful to understand what these files are and where they reside. Harlequin RIPs generate PageBuffer files to store RIPed (bitmap) data. The RIP accesses these files when viewing or outputting jobs. Each page or flat to be output is held in one PageBuffer file, so the system stores multiple-page jobs in multiple PageBuffers. Some PageBuffer files (usually lower resolution proofing output) contain all the colors in a page or flat while others, (usually high resolution screened output) contain only a single color.

A.2 Configuring the Viewer

The Configuration Settings enable you to modify settings that are applicable to the whole of the Viewer. The settings apply only to the RIP Manager client at which they are made. They will not affect other copies of the Viewer on other computers.

To modify the Viewer Configuration Settings:

Select **Viewer Properties** from the Jobs menu in the RIP Manager Client. The window shown below will appear.

Work Space Path sets the location of all temporary files created during processing.

Allocate to sets how much disk space the Viewer may use. This value should be at least 1000 Mb for small files but will need to be 10000 or more for larger files.

Down-sample controls the Viewer's down sampling. (Down sampling is the process of reducing the resolution of an image by calculating average pixel values for an array of input pixels which are used to create a smaller number of output pixels. The options are:

- **Down-sample all factors on view** - This option will process all the possible scale factors from 100% to the factor that best fits in screen when selecting the view button.
- **To best fit in roam window** - This option instructs the system to down-sample by the factor required to fit the image into the roam window.
- **Screen resolution and below** - Only the closest factor to the screen resolution and those below it will be down-sampled. Recommended for best performance.

Default View sets the default mode for the initial view of the page. Best Fit produces a full-screen view while Actual Size shows only a small piece of the full size job.

Units of Measurement allows the user to set default units for measurements made using the viewer.

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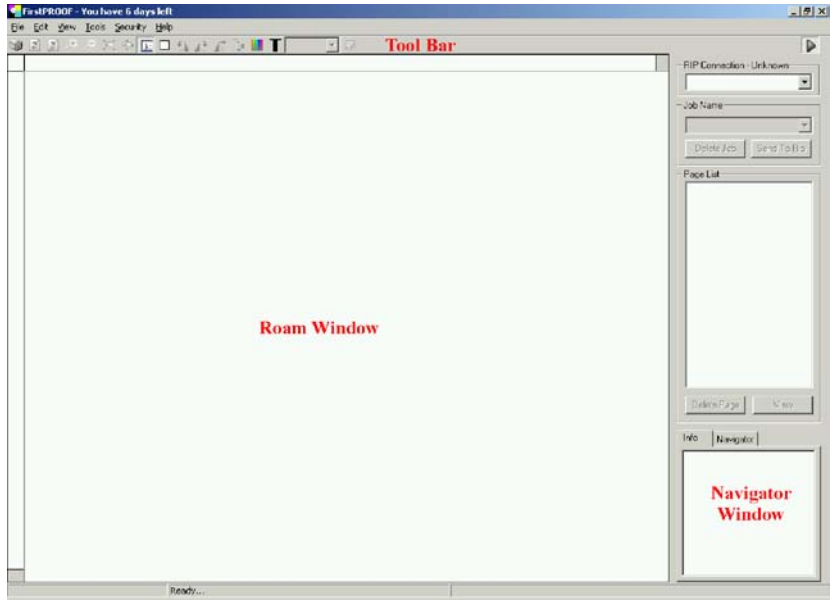
Interface Components



The Roam Window
The Roam Window is the area in which the system will display image data.

The Navigator Window
The function of the Navigator Window is to provide a quick means of moving around large images. The system displays a reduced view of the full size image in the Navigator Window. A green block indicates which area of the image the ROAM window displays.

The Toolbar
The Toolbar contains a set of icons that correspond to items in the top line menus of commonly used functions and add additional user functionality.

Zoom In - Enlarges the displayed image by going to the next zoom factor.

Zoom Out - Reduces the displayed image by going to the next zoom factor.

Full Size - Displays the image on screen at a ratio of 1 image pixel to 1 screen pixel.

Fit To Screen - Calculates the best scale factor to display the whole image in the Roam Window.

Rulers - Switches the ruler display On or Off. This function is also accessible from the **View** menu or by using Ctrl / Command + R.

Show Negative - Switches the image display to Negative or Positive. This function is also accessible from the **View** menu or by using Ctrl / Command + S.

Custom Color Manager - Allows you to set up a list of custom colors for viewing image separations. This function is also accessible from the **Tools** menu.

Trap Black - Switches black separations to 50% gray to assist with proofing black traps.

Map Pages - Allows you to remap the Separation to Page structure of a job. This function is also accessible from the **Tools** menu or by using Ctrl / Command + M.

Scale Box
The Scale Box allows you to select a scale factor to apply to an image in the Roam Window.

The Menu Bar
The Menu Bar contains the following Menus and Options.

The View Menu

- Show Negative = Ctrl / Command + S
- Trap Black = Ctrl / Command + T
- Hand Speed (the speed with which the image moves when panned using the mouse)
    - Normal = Ctrl / Command + 1
    - Medium = Ctrl / Command + 2
    - Fast = Ctrl / Command + 3
- Dock Navigator = Ctrl / Command + N
- Rulers = Ctrl / Command + R
- Control Box = Ctrl / Command + B
- Tool Bar
- Status Bar

The Tools Menu

- Purge Workspace Folder (delete all down-sampled image files to recover disk space).
- Custom Color Manager (to define ROAM colors for spot color jobs, see details later in this Appendix).

Page List Box
The Page List Box displays a list of pages and separations for a selected job.

Info Tab
The Info Tab displays information about the job being viewed.

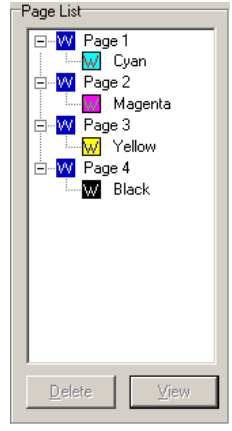
Incorrect Separation Mapping

Although the RIP does a very good job of linking separations with pages, there are some cases where this is not possible. The Viewer allows a system whereby this mapping problem can be corrected.

Take the Following as an example:

- A RIPed job displays in the Viewer with the Colors CMYK listed as 1 color per page e.g. Page 1 – C, Page 2 – M etc., as shown below.

Example of Incorrect Color Mapping



- The mapping for this job should in fact be Page 1 – CMYK etc., as shown in figure on next page.

Correct Color Mapping

To correct the job mapping:

- Select the Map Pages icon from the Toolbar.

The Viewer will search for a recurring pattern and arrange the separations into pages based on this pattern. In most cases this pattern mapping will be successful, but will not work in the case where an extra color represents an individual page.

To overcome this, the Viewer will prompt you to confirm whether non-recurring colors should be treated as part of the recurring pattern or as individual pages.

Selecting and Deselecting Pages and Separations

Initially, all of the pages except the first in the Page List box will be collapsed but can be expanded individually to show the separations that comprise each page. Separations can be selected or deselected as a page group, or as individual separations.

- To select all of the separations from a page, double-click on the Page Number in the list.
- To deselect all the separations click on the Page Number in the list.
- To select an individual separation click on the Separation Name.
- To select multiple separations click on a Separation Name, then hold down the Shift or Ctrl / Command keys while clicking on the Remaining Separations.
- To deselect separations hold down the Ctrl / Command key while left-clicking on the Separation Name. Once you have selected the separations, select the **View** button to process the image view.

Roaming an Image

After selecting the View button, the Viewer will begin processing the Roam Image. At the same time the Viewer will begin producing reduced versions of the image, from which it will create the Navigator View. Although the Navigator image may take some time to process you will still be able to Roam around the image and click on the Navigator window.

The Viewer offers three methods of Roaming around an image:

- Using the scrollbars – There are three ways to roam using the Scrollbars:
  - Clicking on the Arrows at either end of the Scrollbar.
  - Clicking anywhere on the Scrollbar.
  - Dragging the Thumb-tab to any position on the Scrollbar.
- Using the Hand Tool – To roam using the Hand Tool, click an area of the image in the Roam Window and drag the image while holding down the mouse button.

The Hand Tool has three speed settings selectable from the Hand Speed option under the View menu. The options are:

- Normal = Ctrl / Command + 1
- Medium = Ctrl / Command + 2
- Fast = Ctrl / Command + 3

If the Hand Speed is set to Normal, you can change it temporarily by holding down the Ctrl / Command or the Shift key while dragging the image.

- Using the Navigator Window

Use the Navigator Window for moving quickly from one area of the image to another. To jump to an area of the image, just click on the area of the image in the Navigator Window and the Roam Window will update with the selected image data.

The Navigator Window is, by default, docked underneath the Page List box in an area that it shares with the Job Info box. The Navigator Window may however, be positioned anywhere within the Main Window that you choose. There are several ways to Undock the Navigator Window:

- Double click on the Navigator Tab.
- Drag the Navigator Tab anywhere on the screen.
- Select the Undock Navigator option from the Tools menu or use Ctrl / Command + N.

The Navigator Window may be Docked using the following methods:

- Double click on the Navigator Windows Title Bar (PC only).
- Select the Navigator Windows Close Icon.
- Select the Dock Navigator option from the Tools menu or use Ctrl / Command + N.

📖 You can resize the Navigator Image up to a size of 512 x 512 pixels by dragging the sides or the corner of the Navigator window.

Enlarging and Reducing the Image View

After selecting the View button, the Viewer may begin creating reduced view images depending on the down-sampling option that you chose from the Viewer Properties menu. The process of image reduction is very computer intensive and may take some time for large files. The reduction factors available will halve each time - up to the factor where the image will fit into the Roam Window, e.g. 100%, 50%, 25%, 12.5% etc. In addition, enlarged Views up to 800% are available from the Scale Box. The viewer will write reduced view images to disk to eliminate the need for reprocessing unnecessarily.

Selecting a Scale Factor from the Scale Box will update the image view in the Roam Window accordingly. Factors not previously processed due to a choice of down-sampling method will display with a red cross next to them. Selecting one of these factors will instruct the viewer to begin processing it. Process all previously unprocessed factors by selecting the icon on the right of the Scale Box.
The Viewer stores the Reduce View Images in the disk area defined in the configuration screen. Once the total size of the files reaches the space set, the system deletes the oldest files in the folder.

📖 The 50% and 25% roam factors take the longest to down-sample so it is best to avoid these unless you really need them.

Rotating and Mirroring the Viewed Image

The Viewer incorporates the ability to rotate viewed images clockwise and counter-clockwise in 90° increments. Select the icon to rotate the image counter-clockwise and the icon to rotate the image clockwise. Mirror-flip the image by selecting the icon from the Toolbar.

Switching Separations On or Off during Viewing

The Viewer allows you to switch separations On or Off while viewing jobs. Separations can be turned On or Off without having to reselect the **View** button unless all of the separations are deselected. To turn a separation On or Off, hold down the Ctrl / Command key and click on the Separation Name.

Black Traps

The Viewer incorporates the ability to switch the black view from 100% black to 50% black. This feature was introduced to allow users to proof traps where the trap consists of black and another color. To switch the black mode, View a job and click on the icon or use Ctrl / Command + T to switch between Trap Black and Normal Black modes.

Modifying the Roam Color of a Separation

Change the color used to view a separation by selecting a predefined color or selecting a custom color. To change the display color for a particular separation:

- PC – right-click or double-click on the Separation Name.

- Mac – double-click on the Separation Name.
- Select Change Color to change only the selected separation.
- Select Change All Colors to change the color of all the jobs separations with the same name as the one selected

Appendix B –System backups

It is important to know where the system stores job and workflow data for the purposes of software upgrades and system backups.

1. At the root level of the mColor software installation (in the same folder as the executable file) there are three files which contain information about the system configuration : mcolor.jobs, mcolor.actions, and mcolor.wf. After you save a spot color database there will be a fourth file, mcolor.sca, which contains the spot color mappings.

2. Files associated with the system, but not contained within the installation folder include the actual job data, archived jobs, and the hot folders used for job input. These are usually at c:/mcolor/Workflows, c:/mcolor/Jobs, and c:/mcolor/Archives, but you may check in the Server to find out for certain.

There is a multi-level backup system in place to allow the Server to automatically recover if these three databases ever become corrupted.
If something happens to cause a file corruption (e.g. a system crash, a power failure) the Server may display a dialog at start up which says "*Failed to load 'jobs/workflows/actions' information, Press OK to continue using backup information or CANCEL to quit*." If at this point you opt to quit the Server, please contact your support provider to investigate the problem with the assistance of the log files. If instead you choose to use the backup, your most recent changes (if any) will be lost.

Appendix C: Q & A, troubleshooting.

Q. How can I select the M Series plugin?
A. In the Navigator RIP, device menu (initially this is labelled "Preview"), select "Select Device…". Then, in the "Select Output Device" dialog, select "M Series Printer" and "Select". The Device menu will now be labelled "M Series Printer".
In the "M Series Printer" menu, select "Open License Dialog". Enter the license key and "Enable".

Q. How can I enter a Global password for the M Series plugin?
A. Passwords are fewer than ten characters long and are numeric. They may be entered when first installing mColor – the installer will prompt for them. In case you need to enter one at another time:
If you have not already done so, follow the instructions in "How can I select the M Series plugin?" above.
In the Navigator RIP, select Navigator->Configure RIP…
Click "Extras".
In the scrollable list of RIP Extras, select "MSeriesPrinter, MSeriesPrinter".
Click "Add", and enter the password in the "Enable Feature" dialog; "OK".

Q. How can I enter a Xitron license key for the M Series plugin?
A. License keys are more than ten characters long and are a mix of letters and digits.
If you have not already done so, follow the instructions in "How can I select the M Series plugin?" above.
In the "M Series Printer" menu, select "Open License Dialog". Enter the license key and "Enable".

Q. How can I change the M Series plugin settings?
A. The mColor installer installs the recommended settings. If you need to change these:
If you have not already done so, follow the instructions in "How can I select the M Series plugin?" above.
In the "M Series Printer" menu, select "Open Settings Dialog". Make any necessary changes in this dialog, as advised by Xitron Support.

Q. How can I change the M Series plugin configuration?
A. The mColor installer installs the recommended configuration. If you need to change it:
In the Navigator RIP, select Navigator→Page Setup Manager….
Select a Page Setup, and "Edit". In the Edit Page Setup dialog, the selected Device will be "M Series Printer". Select "Configure device…" and make any changes to the plugin configuration, as guided by Xitron Support.

Q. The printer is not printing.
A. Check whether output is disabled in the Navigator RIP's Output Controller. If it is, the M Series Printer icon in the mColor Client will be labelled "Disabled" as shown below.
To correct this, in the Navigator RIP, select Output→Output Controller. Uncheck "Disable output" as shown below.

Q. Output is enabled in the Navigator RIP, but the printer still will not output. The RIP monitor (and the RIP Manager RIP log) shows that it is retrying output, and reports:
"%$Process USBSend is still running - there may have been a problem with the printer".
A. Follow this procedure:

1. If there is a paper jam in the printer, clear it.
2. Check that there is paper in the printer, and press the printer's 'PAPER/RESUME' button.
If the problem persists, it is possible that the application which outputs to the printer, USBSend.exe has been left running (if so, it will be listed in the Windows Task Manager).
If so:
1. In the RIP's Output controller, check “Disable output”.
2. Drag the job from the middle box at the top to Active queue, to stop the RIP from repeatedly trying to output.
3. If you have not already done so, follow the instructions in “How can I select the M Series plugin?” above.
4. In the RIP, select M Series Printer → Reset Printer Connection.
5. In the RIP's Output controller, uncheck “Disable output”.

Q. Some pages are being printed blank, or the printer is feeding a partial sheet of paper after my job, possibly resulting in a paper jam.
A. In the mColor Client, select the workflow you are using in the left sidebar. Then enter the workflow editor by clicking the wrench icon. In the RIP tab, select the configuration “Complex art, Photos” as shown below. Click the wrench to exit the workflow editor.

Q. When printing a multi-page job where the pages are not all of the same width, some blank pages are printed or the printer feeds a partial sheet of paper after the job.
A. In the mColor Client, select the workflow you are using in the left sidebar. Then enter the workflow editor by clicking the wrench icon. In the “RIP Output” tab, deselect the “Collect pages before printing” setting as shown below. Click the wrench to exit the workflow editor.

Q. The customer wishes to run in demo mode.
A. Install mColor, selecting “Demonstration” when prompted by the installer.

Q. The customer is running in demo mode but has now purchased a full dongle.
A. Quit mColor Server (File→Exit), and in the Start menu select Start→mColor→Convert to full. Then restart mColor Server.

Q. How does the demo mode / full mode setting work?
A. There is a text file "harlequinrip.txt" which gives contains the path to the RIP; this is used when mColor Server launches, to start the RIP.
The location of this file is C:\Program Files\Harlequin\SOAR\Services\5.2r0\Final\allall\all\config\harlequinrip.txt
The normal RIP is C:\mColor\Navigator 9.0r1\Xitron.exe. When running in demo mode, a variant of this, the "Watermark" RIP is used instead. This is XITRON_WM.exe.
The Start menu "Convert to full" entry runs a batch file which copies fullharlequinrip.txt over harlequinrip.txt. This .bat files contains a preamble which causes the UAC dialog to be displayed, so that the operation can be performed with Administrator privileges.

Appendix D – Apple Public Source License

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Version 1.1 - April 19, 1999

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